

DLP Projection TV owner's manual

MODELS: 52SX4D / 62SX4D 52SX4D-UB / 62SX4D-UB





Please read this manual carefully and completely before operating your TV.

Retain this manual for future reference.

Record model number and serial number of the TV in the spaces provided below.

See the label attached on the back cover and relate this information to your dealer if you require service.

Model Number : Serial Number :

LG Electronics U.S.A., Inc.

Warning/Caution





WARNING/CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

WARNING/CAUTION:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION:

Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to operate this product.

COMPLIANCE:

The responsible party for this product's compliance is: LG Electronics U.S.A., Inc 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632 1-800-243-0000 http://www.lgusa.com

2 DLP Projection TV

TV Guide On Screen Notices for U.S.A.

Trademark Notice

In the United States, TV GUIDE and other related marks are registered marks of Gemstar-TV Guide International, Inc. and/or one of its affiliates. In Canada, TV GUIDE is a registered mark of Transcontinental Inc., and is used under license by Gemstar-TV Guide International, Inc.

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License Notice

The TV Guide On Screen system is manufactured under license from Gemstar-TV Guide International, Inc. and/or one of its affiliates.

Le système TV Guide On Screen est fabriqués sous licence de Gemstar-TV Guide International, Inc. et/ou d'une de ses sociétés affiliées.

Patent Notice

The TV Guide On Screen system is protected by one or more of the following issued United States patents 6,498,895, 6,418,556, 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

Le système TV Guide On Screen est protégés par un ou plusieurs brevets émis aux Etats Unis, comme le 6,498,895, 6,418,556, 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

Use of the CableCARD[™] TradeMark.

"CableCARD™ is a trademark of Cable Television Laboratories, Inc."

Digital Cable Compatibility

This digital television is capable of receiving basic analog, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced interactive digital cable services such as video-on-demand, cable operator enhanced program (For example, electronic program guide provided by the cable operator), and data enhanced television service may require the use of a set top box. For more information contact your local cable operator.

Safety Instructions

IMPORTANT SAFETY INSTRUCTIONS

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus. This information shall be given in a language acceptable to the country where the apparatus is intended to be used. The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction :

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers)that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong, The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



4 DLP Projection TV

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. CAUTION concerning the Power Cord :

Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

16. Outdoor Use Marking :

WARNING - To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Appliance To Rain Or Moisture.

17. Wet Location :

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Contents

Warnings/Caution .2 Digital Cable Compatibility .3 Safety Instructions .4~5	
Introduction Controls	
Installation External Equipment Connections .12~30 Antenna or Cable Connection .12 VCR Setup .13 External A/V Source Setup .14 DVD Setup .14 CableCARD [™] Setup .15 HDSTB Setup .15 Monitor Out Setup .15 PC Setup .16 Digital Audio Output .17 HDMI .18~20 TV Guide On Screen Setup .21~30	
IEEE 1394 Functions	
TV Guide On Screen™ System	
Operation Turning the TV On .57 TV Setup On-screen Menus Language Selection .58 Setup Menu Options EZ Scan (Channel Search) .59 Manual Scan .59 Channel Edit .60 DTV Signal Strength .60 Channel Label Setup .61 Main Picture Source Selection .61 Video Menu Options EZ EZ Picture .62 Manual Picture Control (Custom Option) .62 Color Temperature Control .62 Video Menu Options .62 Video Reset .62 Audio Menu Options .62 Video Menu Options .62 Video Reset .62 Audio Menu Options .62 Audio Language .63	
EZ SoundŘite / EZ Sound	

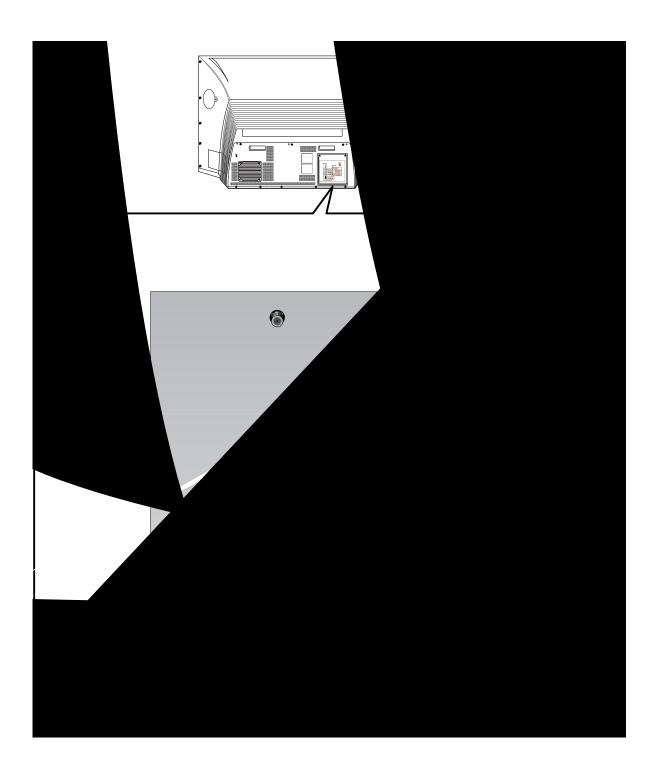
Stereo/SAP Broadcasts Setup6 Time Menu Options	64
Auto Clock Setup	65
Manual Clock Setup6	
On/Off Timer Setup	65
Sleep Timer / Auto Off	6
Option Menu Options	_
Aspect Ratio Control	
Cinema 3:2 Mode Setup	
Caption	
Caption / Text	
Caption Option	
Lock Menu Options	99
Parental Lock Setup	71
CableCARD [™] Function	
Cable menu options	2
Scrambled channel	
Cable Channel List	
Emergency Alert Message	
Χςτυρίο	
Notes on Memory Card	
JEPG File Viewing Options	
MP3 File Playing Operation	56
Remote Control PIP (Picture-in-Picture)/POP/Twin Picture8	7
Watching PIP/POP/Twin Picture	
Selecting an Input Signal Source for PIP/Twin Picture8	
Swapping the PIP/Twin Picture	
TV Program Selection for PIP	
Moving the PIP sub picture	88
Adjusting Main and Sub Picture Sizes for Twin Picture8	
POP (Picture-out-of-Picture: Channel Scan)8	88
APM(Adaptive Picture Mode)	39
Brief Info	0
EZ Mute	
Freeze & Magnify9	
Screen Setup for PC mode	92
Programming the Remote9	3
Programming Codes94~9	95
Troubleshooting Checklist96~9	8
Maintenance9	9
Product Specifications10	0
Warranty	

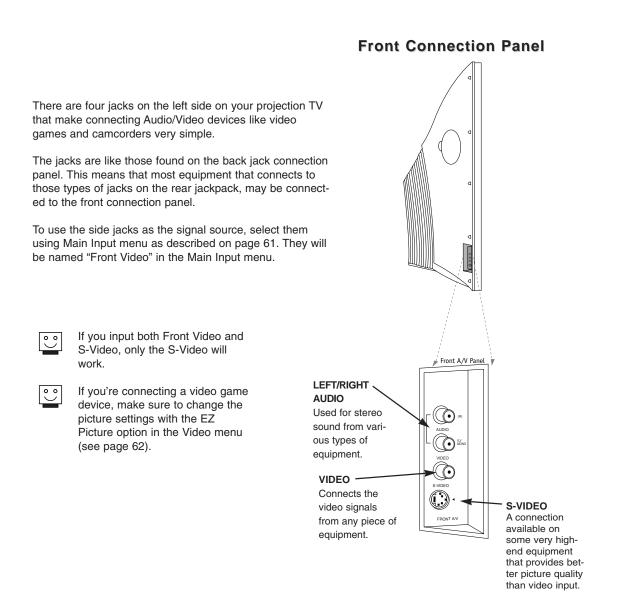
After reading this manual, keep it handy for future reference.

Introduction



Owner's Manual 7





Mini glossary

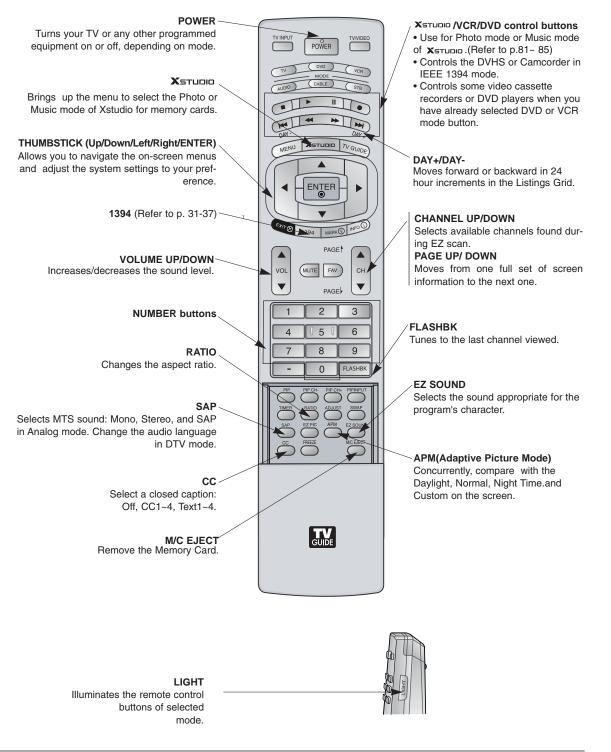
A/V CABLESAudio/Video cables. Three cable connector—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, or television).

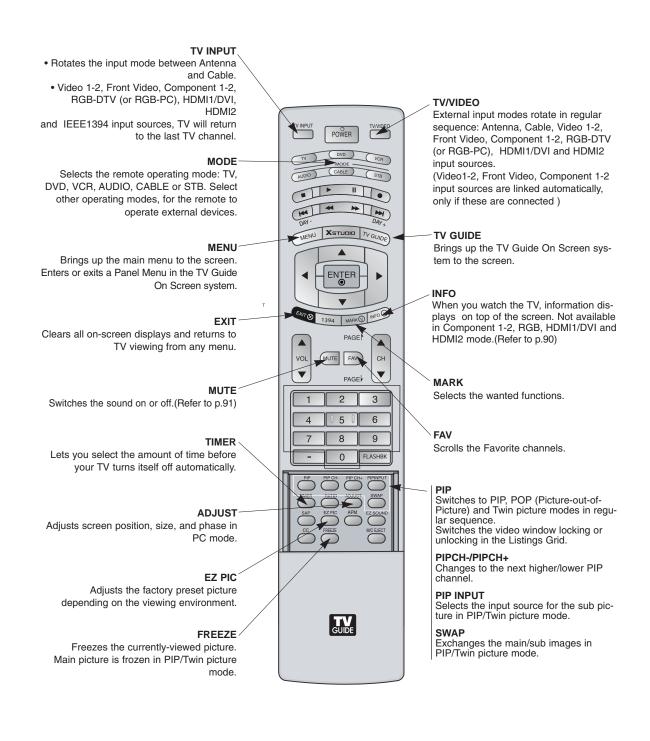
Owner's Manual 9

Remote Control Key Functions

- When using the remote control, aim it at the remote control sensor on the TV.



10 DLP Projection TV



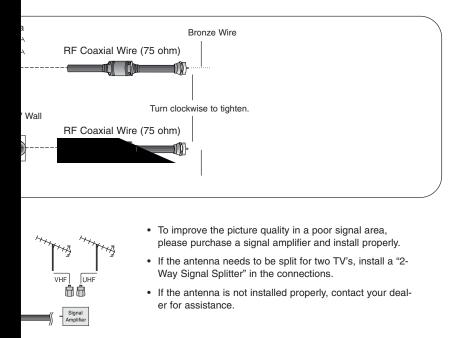
Installing Batteries

- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+ with +, with -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones. Close cover.



Owner's Manual 11

Is provided on cable and antenna



n the TV(analog antenna), DTV(digital antenna), CATV(analog cable) and CADTV(digital plete.

Owner's Manual 13

External A/V Source Setup

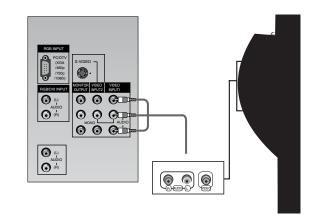
How to connect

Connect the audio and video cables from the external equipment's output jacks to the TV input jacks, as shown in the figure.

When connecting the TV to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

How to use

- Select the input source by using the **TV/VIDEO** button on the remote control. Note that this TV finds the connected input sources automatically for Video 1-2 and Component 1-2. It is presumed that RGB, HDMI1/DVI and HDMI2 sources are connected.
- 2. Operate the corresponding external equipment. For connection instructions for operating the TV Guide On Screen system, see page 21~22.



DVD Setup

How to connect

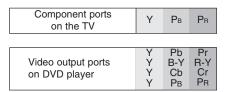
- 1. Connect the DVD video outputs (Y, PB, PR) to the COMPO-NENT (Y, PB, PR) INPUT jacks on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.
- If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.
- Note: If your DVD player does not have component video output, use S-Video.

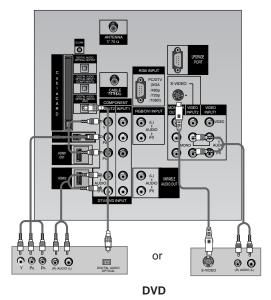
How to use

- 1. Turn on the DVD player, insert a DVD.
- Use the TV/VIDEO button on the remote control to select Component 1 or Component 2. (If connected to S-VIDEO, select the Video or Front Video external input source.)
- 3. Refer to the DVD player's manual for operating instructions.

Component Input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.





Notes:

• Digital Audio will not work for Component 1 input source.

 Digital Audio operation has priority if Digital Audio and AUDIO L/R are connected at the same time.

CableCARD[™] Setup

How to use

Insert the CableCARD[™] received from the cable service provider to the CableCARD[™] slot of TV back panel.

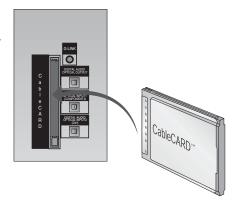
If the pairing information about this TV and the CableCARD is automatically displayed on the screen, contact with the cable service provider by phone.

Note :

 CableCARD™ have the types of Motorola, Scientific Atlanta, SCM etc.. These 3 types of CableCARD™ can be used for this DLP Projection TV.



Caution: When removing the CableCARD[™], do not drop it as this may cause damage to the CableCARD[™].



Signal Component 1/2 RGB-DTV,HDMI1/DVI,HDMI2

No

Yes

Yes

Yes

Yes

Yes

Yes

Yes

HDSTB Setup

- This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.

480i

480p

720p

1080i

- This TV supports HDCP (High-bandwidth Digital Contents Protection) protocol for Digital Contents (480p,720p,1080i).

How to connect

Use the TV's COMPONENT (Y, PB, PR) INPUT, RGB, HDMI1/DVI or HDMI2 jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

Note: HDMI(High Definition Multimedia Interface): Input that accepts uncompressed digital signal and multi channel digital audio signal.

How to use

- 1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 2. Use TV/VIDEO on the remote control to select Component 1, Component 2, RGB-DTV, HDMI1/DVI or HDMI2 source.

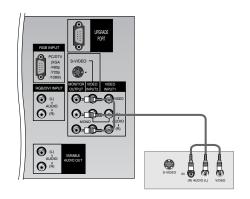
Monitor Out Setup

The TV has a special signal output capability which allows you to hook up a second TV or monitor.

Connect the second TV or monitor to the TV's MONITOR OUTPUT. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

Note

• Component, RGB-PC/RGB-DTV, HDMI1/DVI,HDMI2, DTV input sources cannot be used for Monitor out.



PC Setup

- This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.
- The TV perceives 640x480, 60Hz as DTV 480p based on the PC graphic card, change the screen scanning rate for the graphic card accordingly.

<When the PC supports DVI>

How to connect

- 1. Connect the PC to HDMI1/DVI port of this TV with an HDMI-to-DVI cable(not supplied with this product). If you do not need to connect audio, HDMI2 port is also available for the DVI video connection.
- If the PC(or the sound card of the PC) has a fiber optic digital audio output connector, connect the PC's audio output to DIGI-TAL AUDIO(OPTICAL) port for DVI INPUT.
- 3. If the PC(or the sound card of the PC) has an analog audio output connector, connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

- 1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60Hz.
- Select HDMI1/DVI input source in main input option of SETUP menu.(Refer to P.61) TV/VIDEO button is also available for this purpose.
- 3. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

<When the PC supports RGB>

How to connect

- 1. Connect the PC to RGB INPUT port of this TV with a RGB cable(not supplied with this product).
- 2. If the PC(or the sound card of the PC) has an analog audio output connector, connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

- 1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60 Hz.
- 2. Select RGB-PC input source in main input option of SETUP menu.(Refer to P.61)
- Once you select RGB-PC in main input option of SETUP menu, TV/VIDEO button is also available for this purpose.
- 3. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
640x480	31.469	59.94
	37.861	72.80
	37.500	75.00
800x600	35.156	56.25
	37.879	60.31
	48.077	72.18
	46.875	75.00
1024x768	48.363	60.00
	56.476	70.06
	60.023	75.02

Monitor Display Specifications (RGB-PC or HDMI/DVI Mode)

Digital Audio Output

Send the TV's audio to external audio equipment (stereo system) via the Digital Audio Output (Optical) port.

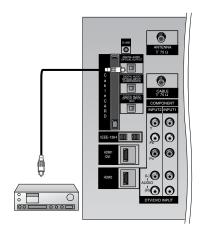
How to connect

- 1. Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
- 2. Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.
- Set the "TV Speaker option Off" in the AUDIO menu. Refer to page 64.

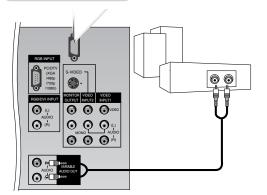
See the external audio equipment instruction manual for operation.



Caution: Do not look into the optical output port. Looking at the laser beam may damage your vision.



External Stereo



Hook up Variable Audio Output, L-Audio-R to Amplifier system for Left/Right front speaker sound.

How to connect

- 1. Locate the Variable Audio Out jacks on the back of your TV and the Input jacks on the back of your stereo's amplifier.
- 2. Connect the two jacks, making sure that the right and left channels are connected correctly.
- 3. Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.





- HDMI™, the HDMI logo and High-Definition Multimedia Interface is a trademark or registered trademark of HDMI Licensing.
- This TV can receive the High-Definition Multimedia Interface(HDMI) or the Digital Visual Interface(DVI).
- This TV supports HDCP(High-bandwidth Digital Contents Protection) Protocol for 720x480p, 1280x720p, and 1920x1080i resolution.
- When you connect this TV with a source device(DVD player, Set Top Box or PC) supporting Auto HDMI/DVI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source device does not support Auto HDMI/DVI, you need to set the output resolution appropriately.
- To get the best picture quality, adjust the DVD Player or Set Top Box's output resolution to 1280x720p, and the PC graphics card's output resolution to 1024x768, 60Hz.
- If the source device has an HDMI output, no other audio connection is necessary because HDMI-to-HDMI connection includes both video and audio.
- If the source device has a DVI output and no HDMI output, a separated audio connection is necessary.

<When the source device(DVD player or Set Top Box) supports HDMI>

How To Connect

- 1. Connect the source device to HDMI1/DVI or HDMI2 port of this TV with an HDMI cable(not supplied with this product).
- 2. No separated audio connection is necessary.

How To Use

- If the source device supports Auto HDMI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source device does not support Auto HDMI, you need to set the output resolution appropriately.
- To get the best picture quality, adjust the output resolution of the source device to 1280x720p. - Select HDMI1/DVI or HDMI2 input source in main input option on the SETUP menu.(Refer to P.61)
- TV/VIDEO button is also available for this purpose.

<When the source device(DVD player or Set Top Box) supports DVI>

How To Connect

- 1. Connect the source device to HDMI1/DVI port of this TV with a HDMI-to-DVI cable(not supplied with this product).
- Do not use HDMI2 port for DVI connection if you want to connect audio.
- 2. A separated audio connection is necessary.
- 3. If the source device has a fiber optic digital audio output, connect the audio output to DIGITAL AUDIO(OPTICAL) port for DVI INPUT.
- 4., connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

- If the source device supports Auto DVI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source device does not support Auto DVI, you need to set the output resolution appropriately.
- To get the best picture quality, adjust the output resolution of the source device to 1280x720p.
- Select HDMI1/DVI input source in main input option on the SETUP menu.(Refer to P.61)
- TV/VIDEO button is also available for this purpose.

Reference

Cable sample

HDMI Cable (not supplied with the product)
HDMI to DVI Cable (not supplied with the product)
Fiber Optic Digital Audio Cable (not supplied with the product)
Analog Audio Cable(RCA type) (not supplied with the product)
Analog Audio Cable(Stereo to RCA type) (not supplied with the product)

Owner's Manual 19

How to use

- 1. Connect the HDMI1/DVI Source Devices(DVD Player or Set Top Box or PC) and the TV SET.
- 2. Turn on the display by pressing the POWER button on the TV SET and HDMI1/DVI Source Devices remote control.
- 3. Select HDMI1/DVI Input source in Main Input option on the SETUP menu.(Refer to P.61)
- 4. Check the image on your TV SET. There may be noise associated with the resolution, vertical pattern, contrast or brightness in HDMI1/DVI Source Devices. If noise is present, change the HDMI1/DVI Source Devices to another resolution, change the refresh rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphics card can not change the PC graphics card or consult the manufacturer of the PC graphics card.

Notes

- Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- Avoid keeping a fixed image on the screen for a long period of time. The fixed image may become permanently imprinted on the screen.
- When Source Devices connected with HDMI1/DVI Input, output PC Resolution(VGA, SVGA, XGA), Position and Size may not fit to Screen. As shown the picture below, press the ADJUST button to adjust the screen Position of TV SET and contact an PC graphics card service center.
- When Source Devices connected with HDMI1/DVI Input, output TV SET Resolution(480p, 720p, 1080i) and TV SET Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI1/DVI Source Devices or contact your service center.
- In case HDMI1/DVI Source Devices is not connected Cable or poor cable connection, "NO SIGNAL" OSD display in HDMI1/DVI Input. In case that Video Resolution is not supported TV SET output in HDMI1/DVI Source Devices, "INVALID FORMAT" OSD display. Refer to the Manual of HDMI1/DVI Source Devices or contact your service center.



PC mode

In This Mode, the Supported TV Set Resolution Specification

- 1920 x 1080 I @ 59.94Hz / 60Hz, 16:9

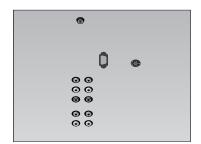
- 1280 x 720 P @ 59.94Hz / 60Hz, 16:9(preferred format)
- 720 x 480 P @ 59.94Hz / 60Hz, 16:9

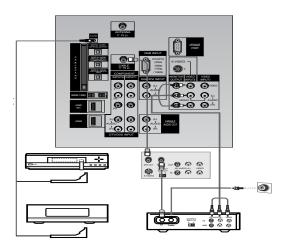
- 720 x 480 P @ 59.94Hz / 60Hz, 4:3

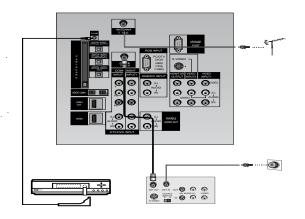
In This Mode, the Supported PC Resolution Specification

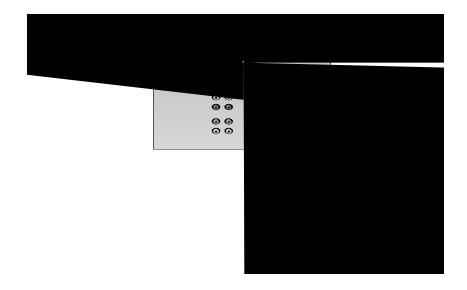
- 640 x 350 @ 70Hz - 640 x 480 @ 60Hz - 640 x 480 @ 72Hz - 640 x 480 @ 75Hz - 800 x 600 @ 56Hz - 800 x 600 @ 60Hz - 800 x 600 @ 72Hz

- 800 x 600 @ 75Hz
- 1024 x 768 @ 60Hz(preferred format)
- 1024 x 768 @ 70Hz
- 1024 x 768 @ 75Hz









22 DLP Projection TV

Note: The G-LINK cable is necessary for the TV Guide On Screen system to work with your Cable Box and VCR. See Page 21~22 for G-LINK connection instructions.

TV Guide On Screen Setup

1.Welcome Screen

The TV Guide On Screen system's Welcome Screen appears:

- -- by pressing the TV Guide key
- -- when you power On your TV if you previously skipped "Set up TV Guide On Screen now" on the Reminder Screen.

The Welcome Screen highlights features of the TV Guide On Screen system.

Press ENTER to begin Setup.



2.Reminder Screen

The TV Guide On Screen system's Reminder Screen appears:

- -- after initial TV set up
- -- if you power Off the TV and then power it back On

To make a selection, use the \blacktriangle / \blacktriangledown buttons to highlight to an option, and press ENTER.

• "Set up TV Guide On Screen now," displays the Welcome Screen. Press **ENTER** to begin Setup.

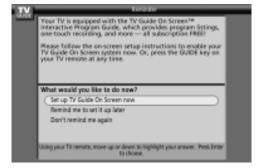
• "Remind me to set up later" returns you to watching TV.

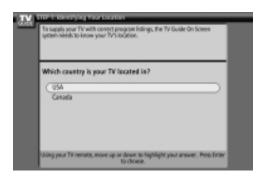
• "Don't remind me again" returns you to watching TV and stops the reminder screen from appearing upon power On.

How to use

1. Screen 1: Country

- This screen asks you the location of your TV.
- \bullet Use the \blacktriangle / \blacktriangledown button to highlight a country.
- Press ENTER to display Screen 2.



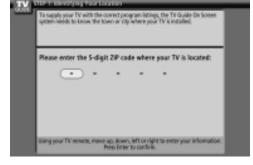


Owner's Manual 23

2. Screen 2: Enter Zip or Postal Code

Option 1

- If you selected USA in Screen 1, you see the ZIP Code screen.
- You input numbers by either pressing the number keys on the remote or using the \blacktriangle / \bigtriangledown button to display a number, and then the \blacktriangleleft / \blacktriangleright button to move to another field.
- Press ENTER to display Screen 3.



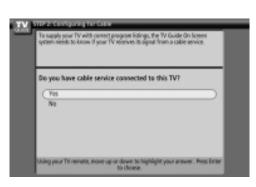
acter postal code where your TV is

Option 2

- If you selected Canada in Screen 1, you see the Postal Code screen.
- You input characters by using the ▲ / ▼ button, and then the ◄ / ►
- button to move to another field.
- Press ENTER to display Screen 3.

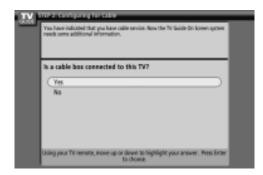


- If you select Yes, you see Screen 4.
- If you select No, you see Screen 12.



4. Screen 4: Do you have a Cable Box?

- If you select Yes, you see Screen 5.
- If you select No, you see Screen 12.



5. Screen 5: Which TV input is the cable box plugged into?

- If you select Cable, you see Screen 6.
- If you make any other choice, you see Screen 7 .
- reen system needs to know which one your call y have to look at the back of your TV if you an rection will shark a the back of your TV if you an Rease indicate which TV input the cable box is plugged into. Cable Sec. ng your Til remote, move ight your answer. Press Enter

6. Screen 6: Cable Box Tuning Channel

- Select the channel used for the cable box.
- Press ENTER to display Screen 7.

needs to know the char commonly used output	th your cable box, the TV Euide On Screen system and your TV is on when using the cable box. The mass channel is BJ. Prese consult your cable provider if connect selection will result in a like or snowy screen
What is your TV to	ned to when using the cable box?
Ch2	
(0)3	
Ch4	
Using your Till remote, i	nove up or down to highlight your answer. Press Ento to choose

7. Screen 7: Cable Box Configuration Diagram

- The diagram shows the correct way to install the G-LINK Cable from the back of the device to the cable box. Make sure the G-LINK™ Cable is properly installed.
- Press ENTER to display Screen 8.



8. Screen 8: Cable Box Brand Name

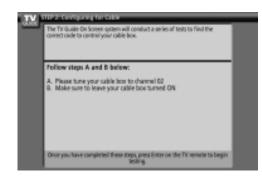
- Use the ▲ / ▼ button to select a cable box brand.
- Press ENTER to display Screen 9.

Selecting the current cable loss brand from the list is needed to automatically requested program information of the list is needed to automatically request cable provide.

 What brand of cable box is connected to this TV?
 Not Listed
 (Active
 Cable Contents
 Cable Contents
 Cable Contents
 Cable terms
 Cable terms
 Cableterma

9. Screen 9: Cable Box Preparation

• Follow the on-screen instructions, and press **ENTER** to display Screen 10.



10. Screen 10: Cable Box Code Testing

• When testing is done, Screen 11 displays automatically.



11. Screen 11: Cable Box Tuned to Channel 9?

- If you select Yes, you see Screen 12.
- If you select No, a different code is tested in Screen 10.

Note:

- Many Cable Boxes require testing more than one code.
- If you select Test this code again, the same code is tested again in Screen 10.



12. Screen 12: Do you have an antenna connected?

• If you select Yes, you see Screen 13.

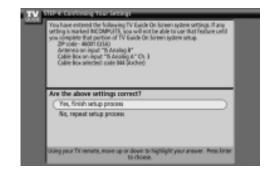
Note:

- If you selected No in Screen 3 then you must select Yes in this screen to receive a channel lineup and listings.
- If you select No, you see Screen 13.

VILL is a concepting for Areas
 Non-apply your IV with some groups in lating, the TV foulde Do loren system
 need to have if you have attached an antama to your TV to receive over-the-are
 actions.
 Do you have an antenna connected to your TVT
 Yes
 No
 Vising your TX remote, more up on down to highlight your answer. Press lister
 To choose.

13. Screen 13: Are your basic settings correct?

- If you select Yes, you see Screen 14.
- If you select No, you see Screen 1.



14. Screen 14: Congratulations

• Press ENTER to display Screen 15.



15. Screen 15: Is a VCR Connected?

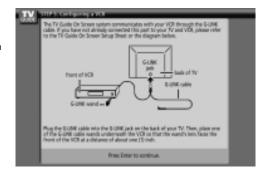
- If you select Yes, you see Screen 16.
- If you select No, you see Screen 21.

ed to this TV, you can use the TV Exide On Saree Would you like to use TV Guide On Screen to control the recording of your VCR? (Yes, setup VCR control No. end setup lg your Til remote, move up or down to light your answer. Ness Enter

16. Screen 16: VCR Configuration Diagram

 \bullet This screen shows the correct way to install the G-LINK^{\mbox{\tiny TM}} Cable from the back of the TV to the Recording device.

- Make sure the G-LINK[™] Cable is properly installed.
- Press ENTER, and you see Screen 17.



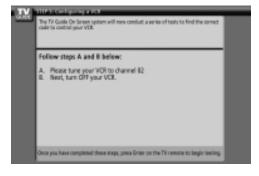
17. Screen 17: VCR Brand Name

- Use the ▲ / ▼ button to select the brand of the recording device.
 Press ENTER, and you see Screen 18.



18. Screen 18: VCR Preparation

• Follow the on-screen instructions, and press **ENTER** to display Screen 19.



19. Screen 19: VCR Code Testing

• When testing is done, Screen 20 displays automatically.



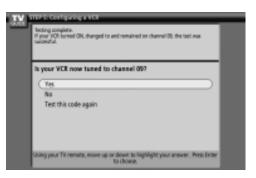
20. Screen 20: VCR Tuned to Channel 9?

- If you select Yes, you see Screen 21.
- If you select No, a different code is tested in Screen 19.

Notes :

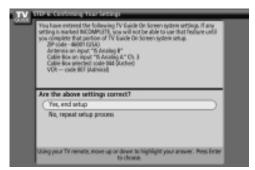
• Many VCRs require testing more than one code.

• If you select Test this code again, the same code is tested again in Screen 19.



21. Screen 21: Confirming Your Settings

- Verify the Setup information is correct.
- If it is, select Yes, end setup, and you see Screen 22.
- If it is not, select No, repeat setup process, and you see Screen 1.

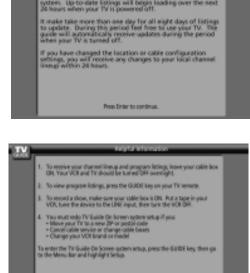


22. Screen 22: Congratulations

- You have successfully completed Setup!
- Press ENTER and you see Screen 23.



- This screen tells you valuable information on using your TV Guide On Screen system
- Press ENTER to watch TV.



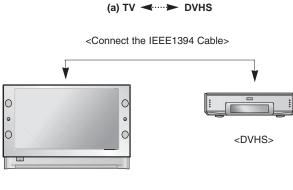
Press Enter to continue.

Notes:

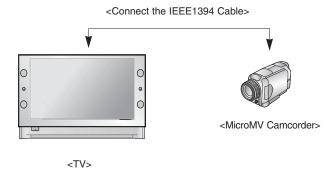
- The TV Guide On Screen system receives program listings data through your cable or over-the-air video signal. In order to receive regular program listings, please remember to do the following:
- 1. Turn OFF your TV when it is not in use. (Do not unplug the power cord.)
- 2. If you have a Cable box connected, leave it ON.
- 3. If you have a VCR connected, turn it OFF when not in use. (Do not unplug the power cord.)
- 4. If you have more than one Cable system in your area, you may be prompted to select which Cable system's program data to download. If so prompted, please follow the on-screen instructions.

IEEE 1394 Functions

- It's available to communicate to either direction and you can give and take a image, sound, or each control command with one cable.
- How to connect the 1394
 - •To operate the IEEE1394, these methods are available as shown below.
- 1. When connecting the DVHS or the MicroMV Camcorder, as shown in the (a) or (b) figure, press the to show the control panel.



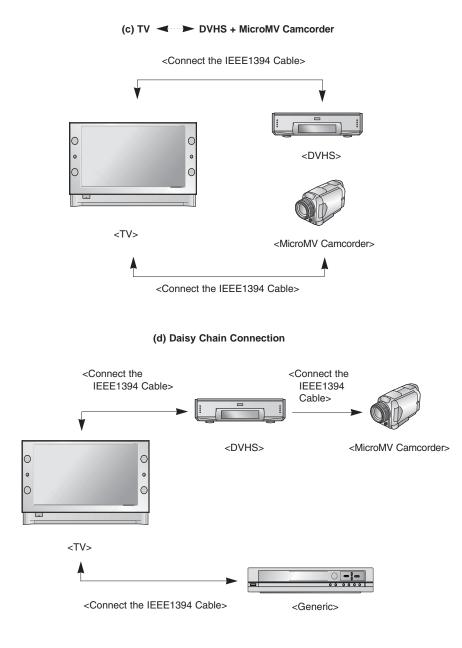
<TV>



Note: When connecting the DVHS and the MicroMV Camcorder, in case of showing 'input error', it's okay.

IEEE 1394 Functions

2. When connecting the DVHS and the MicroMV Camcorder, as shown in the (c) or (d) figure, press the used button to show the control panel and then select the DVHS or the MicroMV Camcorder.



-When connecting the 1394 and then playing, you must use the original DVHS tape. If not, it may occur errors.

-If the operation normally doesn't work on Daisy Chain connection, please change an arrangement of connected device.

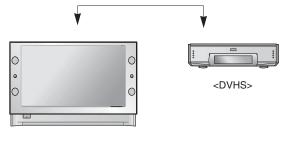
32 DLP Projection TV

DVHS

• How to play the DVHS

1. Connect the IEEE 1394 jack at the TV to the IEEE 1394 jack at the DVHS with IEEE 1394 Cable.

<Connect the IEEE1394 Cable>



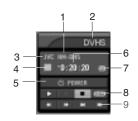
- 2. When watching the TV, press the 1394 button.
 - Show the control panel of DVHS.



<TV>

• The control panel of DVHS

-Depending on the connected equipment, marked control panel may be different.



1. DVHS Model

- 2. Connected Equipment to the 1394
- 3. DVHS Company
- 4. DVHS Operating Status
- 5. Power On/Off
- 6. DVHS Play Time
- 7. Tape Status
 - Tape shape Icon Tape in or not
- Lock shape Icon Writable or not
- 8. Initializing Play Time
- 9. DVHS Play, Pause, Stop, Search, Skip.

(Notes:

 Skip- This function is for a fast search. It searches the program's start point. On skipping, Search (◄< ►>), Pause (II) and Play (►) are dis played on the Control Panel. In some models, it's not available to operate the Skipping (I◄< ►>) function.

- * Supported DVHS List
- JVC(HM-DH40000K) JVC(HM-DH40000U) JVC(HM-DH5U) MITSUBISHI(HV-HD1000) PANASONIC(NV-DH2)

- Notes:
- In case the DVHS have a incorrect recognition, the power cord of DVHS is completely pull out and then connect again.
- When searching the screen (++ >>), the DVHS may be strangely seen. And also the DVHS may late respond by devices.

IEEE 1394 Functions

MicroMV Camcorder and DVHS

- How to play the MicroMV Camcorder and DVHS
- 1. Synchronously, connect the IEEE 1394 jack of the TV to the IEEE 1394 jack of the DVHS and the MicroMV Camcorder with the IEEE 1394 Cable.

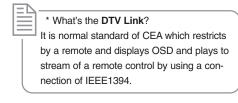


2. Press the ▲ / ▼ button to select a device, then press ENTER button to play it . And then selected device will be shown on the OSD.



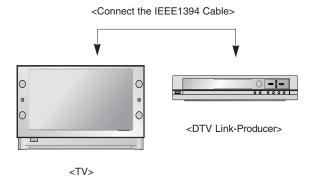
IEEE 1394 Functions

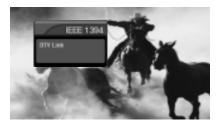
DTV Link : DTV Link applies to 1394 connection of device labeled DTV Link logo.



How to play the DTV Link

- 1. Connect the IEEE 1394 jack of the TV to the IEEE 1394 jack of the DTV Link supported device IEEE 1394 Cable.
- 2. When watching the TV, press the 1394.





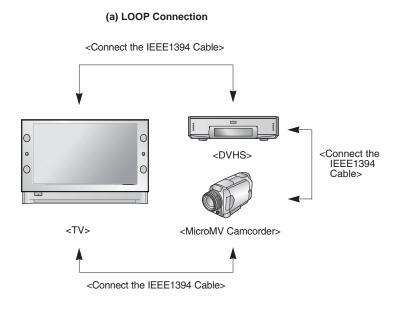
3. Press the **TV INPUT** button to stop the IEEE1394 function.

Notes:

- On a condition of connecting the IEEE 1394, you can control the DTV Link device while watching the OSD through DTV and DTV remote control.
 - (ex: change of channel, play, record, a show of recording list etc.)
- Analog channel is not supported.
- In case a device outputting MPEG2 TS Data through IEEE1394 port but it doesn't support to DTVLink, you are able to see a screen even if it doesn't control directly on TV.

Don't connect !

• When using one of these 2 methods, the IEEE1394 will not work properly.



(b) When connecting the 4 devices and over, the 1394 will not work properly.

Note: When the same devices connect with 2 devices and over, it's undesirable.

Owner's Manual 37

]) TV Guide On Screen™ System

Overview

- Your new TV contains the TV Guide On Screen Interactive Program Guide.
- The TV Guide On Screen system has features that help you get the most out of your viewing experience.

TV Guide On Screen Overview

The TV Guide On Screen system has the following features:

•Three 30-minute time periods in a 16x9 aspect ratio.

- •Eight days of show listings (today plus seven days).
- •Icons that indicate show rating, stereo, HDTV, new episode, etc.
- •Intuitive up/down/left/right navigation using your remote control.
- •Set shows to Record.
- •Schedule show Reminders.
- •Search shows by category (e.g., Movies, Sports, Children, etc.).
- •Search for shows based on keywords or alphabetically by title.
- •Direct tuning to a channel.
- •Show information while watching TV.
- •Streamlined System Setup and default setting options.
- •Channel lineup customization.
- •Help screens while in the Guide.

Screen Components

- The screens displayed in the TV Guide On Screen system share many of the same components, as shown in the following figure:

TV Guide Video Logo Window		الوتانالية 	Current t Service Label	Service B	ar
YV	4 SETUP	SCHEDULE	LISTINGS	SEARCH	SETUP 🔸
	TODAY	8:00PM George Lopez	8:30PM Married/Kellys		OPM Slot
	6 WRIV			28 8:00	E30 ONFO Info
	George Lop George sen up. Constan	pez "Weekend at Benny itences them to spend a nce Marie, George Lopes	's" (Sitcom) Fed up v week at Benny's, liv r, Belita Moreno. TV	vith the kids' spoiler ing the way he was PG (Suggestive Dial	d behavior, brought ogue) 슈 國
COLD					Bex
Tonight 877pm	FOX	Great American		Man vs. B	east 2 🕠
©CBS	CBS	Joan of Arcadia		JAG	
71	-SD	Dateline NBC		/	
a for the	O PBS	Washington Week	Wall St. Week	NOW with	TBHL, Y
20		Chill Factor	_	_	Tiles
	- KJ	(NBA Basketball	_	_	
	CONN	Paula Zahn Now	_	💿 🛛 Larry King	(2)
// dick here	awc	Mimic	_		
Panel Ad and Panel Menu Entry	Channel Logo			Record	Remind Icon

- •Video Window displays TV video while the Guide is displayed
- •Service Bar provides access to the 4 main Guide Services
- •Current Service Label indented to indicate current Service displayed
- •Tile displays show title
- •Highlight indicates an active tile
- •Info Box provides information for a highlighted item
- •Info Button cycles through the various Info Box sizes
- •Channel Logo identifies network
- •Record/Remind Icons indicates a show is set to Record or set as a Reminder
- •Panel Ad location where show- or product-specific information appears (and also where Panel Menu appears)

) TV Guide On Screen™ System

Panel Menu

Panel Menu

	Panel Nenu						
	TV 8.05.	✓ SEARCH	SETUP	SCHEDULE	USTINGS	56	ARCH 🔸
	GUIDE						O INFO
			Press Menu now Move + to high	d or Remind listed for more Schedu light any show for show options	le choices		
Default							
Command Button	Remind Options 0	SCHEDULE					
Durine -	schedule reminder	Wid Thomberrys			_	Fri 2/20	6:30am 😱
Highlight -	date 02 / 20 / 04	Days of Our Lives			_		11:00am 🖓
	start 01 : 30 (+ am +	Daredevi			_		12:44pm 🖓
Entry Box	end 02 :00 (am)						
	channel 6	Jeopardyl		_		Fri 2/20	7:29pm 🛱
	input & Cable Input >	Dateline NBC				Fri 2/20	6.00pm 🕁
		Hope & Faith				Fri 2/20	9:00pm 🔾
	power on TV (no)	Life with Bonnie			_	Fri 2/20	9:28pm)
	auto tune TV 🤄 no 🔸	Jay Leno					11:35pm 🗇
Odometer	frequency - once >	as furne				101 2020	and a prime
	more 💌						

•A Panel Menu appears when the Menu key is pressed on a highlighted tile and additional options are available. It also appears when you press **ENTER** on a show starting in the future.

•When a Panel Menu appears, the highlighted tile changes color to indicate the Panel Menu relates to this tile.

•The Panel Menu displays below the Video Window.

•Help is available for a displayed Panel Menu by pressing the INFO button.

•The \blacktriangle / \bigtriangledown buttons move between the options within the Panel Menu.

•The left and right arrows move to adjacent options unless the highlight is on an odometer, where these arrows change the odometer choice.

•Pressing ENTER from an odometer or number entry box moves the highlight to the default command button of that Panel Menu, for example, Schedule Reminder.

•Pressing ENTER from a highlighted command button executes the action and closes the Panel Menu (e.g., Schedule Reminder, Cancel).

•Select Cancel to cancel any changes and press ENTER to close this menu.

•Pressing Menu is a shortcut to Cancel. Press Menu to cancel any changes and close the menu.

•If a Panel Menu contains more menu options than can be displayed on a single screen, ▲ / ▼ buttons appear at the top or

bottom of a menu. Simply scroll down to access these options.

Main Services

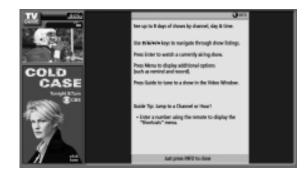
Listings

- Access Listings by pressing the TV Guide button on your remote or on the front panel of your TV.

- Listings is always the first Service displayed in the Guide.

- With Listings highlighted, press the Info button to display a Help screen.
- Press the Info button again to close the screen.







Use the \blacktriangle / \blacktriangledown / \blacklozenge / \blacklozenge buttons to move the highlight within Listings to:

- •View 8 days of show listings
- •Read show descriptions
- •Tune directly to a show currently airing
- •Set a show to Remind

•Set a show to Record

- •Lock and unlock the Video Window
- •Access Panel and Channel Ads

Notes: There may be times when the TV Guide On Screen system could display partial or no program list-

- ings. The reasons for this include:
- Program schedule information was not provided to TV Guide On Screen.
- The transmission of the program listings was interrupted.

The phrase "No Listings" will be replaced with program information during the next transmission, which should occur within the next 24 hours.

Please remember to turn off your TV when not in use in order to receive program listings.

■ TV Guide On Screen[™] System

Search

- Search lets you find shows by category (Alphabetical, Movies, Sports, Children, Educational, News, Variety, Series, HDTV) or by Keyword.
- With Search highlighted, press the Info button to display a Help screen. Press the Info button again to close the screen.



•Category Search Example: Movies

1. From Search, use the ▼ button to highlight Movies.

TV	0
AND ADDRESS IN	There are determs of ways to find shown you'd like to wardh, record or set as a remainder.
	 ADTV = Don't miss set on HSTV exhanged programming/ Fire-tune-your search with time substrategienes.
COLD	 digeneral - Den't know the full title! Find it based or a word (see All or several substragerise).
CASE	 AlphabeticsF—search.N-2, and shows that begin with numbers or other non-letter characters
South Section	 Categories Movies, Sports, Children, Brus, Educational, Karlety, Series
	Guide Tip: Search Remembered
	 When you entire Search, TV Guide On Smann semanitizers the last beach and takes you to that section.
// ⇔	Just pres IRPO to close

	A SAEAL LINKS A ARABITCA	
	Nove + an	d choose a category type
COLD		
CASE	x)	Wakal
Tongal Street	51101	Nytery
10000 Con	Arrend	Potrans
10.00	Corredo	Science Flotion
the second second	Deconcersity	Wa
100	Otoma	Weter
1	Partag	Ofist
	Hanter	N
⇔		

- 2. Use the $\mathbf{\nabla}$ button to highlight a subcategory (for example, All).
- 3. Press **ENTER** to display a list of all Movies, organized by date and time.

W	4 20415351	10 March		110	18.18	- 10
And Designation of the local division of the	4 ADMAGE	TICAL	10000	_	SKOULP	•
図・10歳 服	Al		143300F	_	_	
States of the local division of the local di				_		() we
Summer Providence		Prea OK For	list matching category to highlight show X for show options	type		
COLD		then pres-0	K for show options			
COLD						
CASE						_
Tonghi ETon	51101	_	Nytkey	_	_	_
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17.00	Cornedy	_	Science Fi	cion 👘	_	
1000	Researching		War			
80	Gora	_	Wetern	_	_	_
AL	Partice	_	Otion	_	_	
S	92101	_	N	_	_	_

4. Highlight a show and press **ENTER** to watch (if on now) or the Menu key to display the Episode Options menu.

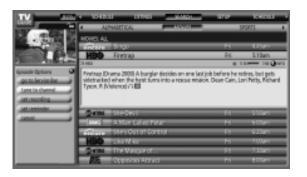
IN 1999	204841 14946 - 22054	THE REAL
And Address of the Owner of the	ALPHANETICAL CONFIDE	99005
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	Rinettaga (Dinama 2000) A burgilar decides on one sideetracked where the held: turns into a reacue t Typon. R. (Violence) (*) IIII	elalós. Dean Cain, Lari Petty, Richard
400 Sea	OWN DISIN	Fi 530m
1 10	INTER STREET	P1 6:00am
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1 2 0 1	HB0 Like Max	F1 2.00am
	Game Inclusion	Fil 2,538**
	A Copposited Statust	Fil & Cours
// ⇔	Endane 9 1/0	Fi 800m

You can choose to set a recording, a reminder, or tune to the channel.

Go to Service Bar - closes the menu, changes no information, and returns to the Search Service Bar. Tune to Channel - exits the Guide and tunes to the channel of the highlighted show (show airs in the future). *Note: This option reads Watch Now if the show is currently airing.*

Set Recording - displays the Record Options menu, from which you can set frequency, start and end time, etc. Set Reminder - displays the Remind Options menu, from which you can set frequency, start and end time, automatically power On, and auto-tune the TV.

Cancel - closes the menu, changes no information, and returns to the highlighted show.



) TV Guide On Screen™ System

Keyword Search

- Keyword search lets you enter a word(s) to look for a particular show by category or for every show title that matches.
- 1. Highlight the Keyword navigation label, and press **ENTER** button to display the Keyword **Search** menu.
- 2. Highlight New Search, and press ENTER button.



- 3. The Search Options menu is displayed.
- Highlight Category, and use the < / ▶ buttons to select a category to search (e.g. All, HDTV, Children, Sports, etc.). When finished, use the ▼ button to highlight Enter Keyword.
- 5. Highlight Enter Keyword, and press **ENTER**. Then the keyboard is displayed.



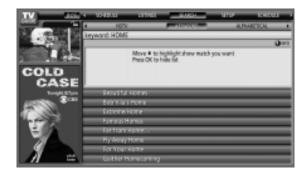
 Use the ▲ /▼ / ◄ / ► buttons to highlight a character, and press ENTER to display it. When complete, highlight Done and press ENTER.



7. A list of all matching shows for that keyword is displayed.

Like the Category Search Example, you can highlight a show, and press **ENTER** to display all airings. You can then highlight a specific listing and press **ENTER** to watch (if On now) or the Menu key to display the Episode Options menu.

From the Episode Options menu, choose to set a recording, a reminder, or tune to the channel, as previously described.



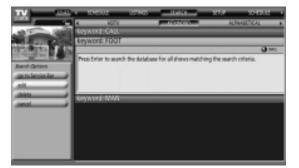
The Guide stores all the keywords you create. To edit or delete a keyword, highlight the keyword and press the Menu key. A Search Options menu is displayed.

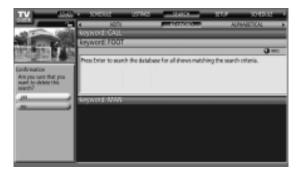
Go to Service Bar - closes the menu, changes no information, and returns to the Search Service Bar. Edit Search - displays the keyboard, where you can change the keyword.

Delete Search - A Confirm menu is displayed.

- •Yes deletes the Search
- •No closes the panel menu

Cancel - closes the menu, changes no information, and returns to the highlighted show.





D TV Guide On Screen™ System

Schedule

- Schedule lets you review, edit, or delete Record and Remind events that you set previously.
- With Schedule highlighted, press the Info button to display a Help screen. Press the Info button again to close the screen.
- An icon identifies the event type:

Record

• Regularly , Daily -records the show every time the show airs on the same channel and starts at the same time

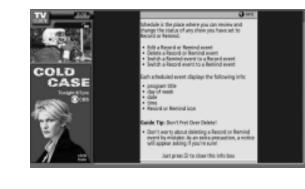
• Off I -keeps the show in the list but will not record this show until the frequency is changed.

Remind

Once _____sets a show reminder one time

• Regularly . Daily -sets a show reminder every time the show airs on the same channel and starts at the same time





Highlight an event, and press the Menu key for options.

Go to Service Bar - closes the menu, changes no information, and returns to the Schedule Service Bar.

Tune to channel - exits the TV Guide On Screen system and tunes to the highlighted show.

Delete Recording - removes the recording from the Schedule, after a Confirm screen.

Edit Recording - opens a menu from which you can change existing recording information.

Set Reminder - opens a menu from which you can set a Reminder for the show (Record is not cancelled).

Cancel - closes the menu, changes no information, and returns to the highlighted show.



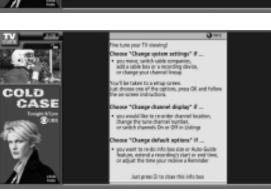
Setup

- After you complete the TV Guide On Screen system setup, you can come back and change its settings in the following areas:
- Change System Settings
- Change Channel Display
- Change Default Options

Highlight a choice, press **ENTER**, and follow the on-screen instructions.



With Setup highlighted, press the **Info** button to display a Help screen. Press the **Info** button again to close the screen.



Change System Settings

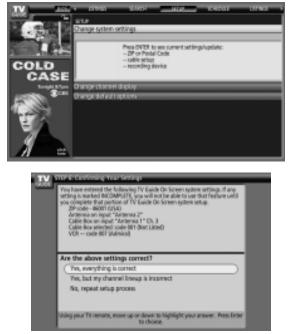
This option appears after you have completed the initial Guide Setup process.

Press **ENTER** to display the Confirming Your Settings screen. You see your current settings.

Choose one of the options, press **ENTER**, and follow the on-screen instructions.

Notes:

- If the stations in the Listings grid don't match the channel numbers in your area, choose the option "Yes, but my channel lineup is incorrect" to view more channel lineups available in your area.
- If none of the lineups listed match your lineup, use the Change Channel Display option to correct the stations and their corresponding tune channels.



]) TV Guide On Screen™ System

Change Channel Display

Change Channel Display lets you edit channel information that appears in Listings. With Change Channel Display you can:

- Change the position number to indicate where in the Listings the channel displays.
- Change the tune channel number
- Switch a channel
 - On the channel is always displayed
 - Off the channel is never displayed
 - Auto-Hide the channel is only displayed when program information is available.



Press ENTER to display the Channel Editor screen.

Then, highlight a channel and press Menu. A Grid Options menu is displayed.

Highlight Go Back to Setup to close the menu, change no information, and return to the Setup Service Bar.

Or make changes and when finished, press **ENTER** to highlight Done. Press **ENTER** again to close the menu and accept the changes.

Highlight Cancel to close the menu, change no information, and return to the highlighted channel.

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Change Default Options

Change Default Options lets you change default settings in the following categories:

- General Default Options
- Record Defaults
- Remind Defaults

Highlight Change Default Options, and press ENTER.



<General Default Options>

General Default Options lets you set defaults for the following:

•The initial Info Box size when the TV Guide On Screen system is entered.

Choices are No, Small, Large, and Last Used (Default = Last Used).

•The Info Box size rotation when the Info key is pressed while in the TV Guide On Screen system.

Choices are No only, Small only, Large only, No & Small, No & Large, Small & Large, All (Default = All)

•Automatic entry into the TV Guide On Screen system (Auto-Guide) when the TV is powered On. Choices are On and Off (Default = On).

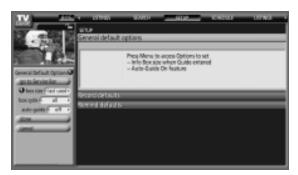
Highlight General Default Options, and press the Menu key to display the General Default Options menu.

Highlight Go to Service Bar to close the menu, change no information, and return to the Setup Service Bar.

When finished, press **ENTER** to highlight Done. Press **ENTER** again to close the menu and accept the changes.

Highlight Cancel to close the menu, change no information, and return to the highlighted option.



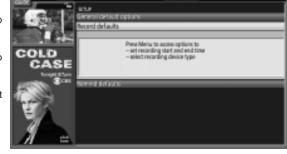


TV Guide On Screen [™] System

< Record Defaults>

Record Default Options lets you set defaults for the following:

- When to start the record event. Choices are 120 minutes early to 120 minutes elae, to On trim. (Default = On trim)
- When to end the record event. Choices are 120 minutes early to 120 minutes elae, to On trim. (Default = On trim)
- Recorder choice: Please choose the VCR only. This TV does not support other devices with a recording feature.



Highlight Record Defaults, and press the Menu key to display the Record Default Options menu.

Highlight Go to Service Bar to close the menu, change no information, and return to the Setup Service Bar.



< Remind Defaults>

Remind Default Options lets you set defaults for the following:

•Power On the TV, if Off, when a Reminder is scheduled. Choices are Yes and No.

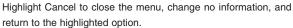
(Default = No)

- •Automatically tune the TV to the channel (TV must be On), when a Reminder is scheduled. Choices are Yes and No. (Default = No)
- •When to display the reminder screen. Choices are 30 seconds to 15 minutes early, to 30 seconds to 15 minutes elae, to On trim. (Default = 1 min early)

Highlight Remind Defaults, and press the Menu key to display the Remind Default Options menu.

Highlight Go to Service Bar to close the menu, change no information, and return to the Setup Service Bar.

When finished, press **ENTER** to highlight Donm. Press **ENTER** again to close the menu and accept the changes.







50 DLP Projection TV

Record And Remind Features

Record

You can set a show to Record in Listings, Search, and Schedule or change Record settings for a show in Schedule.

There are 3 ways to set a show to Record:

1) Using the Record Button on the Remote

- Press the Record button on the remote to record the show Once with current default settings (Start and End recording On Time). Each time you press the Record button, you change the record frequency (but not the default settings) among Once (default), Regularly, Weekly, Off, and then Cancel.
- **Note**: The proper Record icon appears on the show tile, as the Record button is pressed.

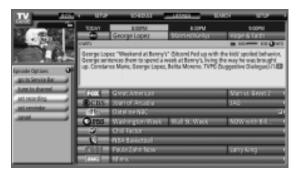
Once -records the show one time

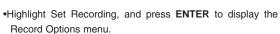
• **Regularly** —records the show every time the show airs on the same channel and starts at the same time

• Weekly - records the show each time the show airs on the same day of the week, on the same channel and starts at the same time

• Off (not cancel) - keeps the show in the list but will not record this show until the frequency is changed

• Cancel (no icon displayed)-does not record





2) From a Panel Menu

Options menu.

 Highlight the Frequency option, and use the left and right arrows to choose among Once, Regularly, Weekly, and Off, as previously described.

•Highlight a show, and press Menu to display the Episode

- Recorder choice: Please choose the VCR only. This TV does not support other devices with a recording feature.
- •Note: Video Window Lock is switched to on or off using PIP button in Listings mode.



]) TV Guide On Screen™ System

When finished, press ENTER to highlight Schedule Recording.

Press **ENTER** again to close the menu. You see a Record icon for the selected frequency next to the show title.

Highlight Cancel to close the menu, change no information, and return to the highlighted show.



3) Manual Recording

- •Highlight the Schedule Service label, and press Menu to display the Schedule Options menu.
- •Use the ▲ / ▼ / ◀ / ► buttons to move through the options. Use the number or the ▲ / ▼ / ◀ / ► buttons to change the information, as necessary.
- •Highlight New Manual Recording and press **ENTER** to display the Record Options menu.

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- •Current information (i.e., date, start and end times, channel, input) is displayed.
- •Recorder choice: Please choose the VCR only. This TV does not provide other devices with a recording feature.

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 Use the ◄ / ► buttons to choose among Once, Daily, Weekly, and Off, as follows.

• Once _ - records the time, channel, input, recorder combination one time.

◆ Daily ■ — records the time, channel, input, recorder combination Monday through Friday.

• Weekly ______-records the time, channel, input, recorder combination once a week on this selected day of the week

• Off (not cancel) — keeps the time, channel, input, recorder combination in the list without recording until the frequency is changed.

When finished, press **ENTER** to highlight Schedule Recording.

Press **ENTER** again to close the menu. You see a Record icon for the selected frequency next to the show title.

Note: Manual recording is listed by channel number.

Highlight Cancel to close the menu, change no information, and return to the highlighted show.

Before a recording begins, a notification screen appears if you are using a Cable box and your TV is On. At that time, you can choose to start or cancel recording. If the TV is not On, the recording occurs as scheduled. If there is no activity for 3 minutes, the notification screen automatically closes and completes the highlighted item.

Record Conflict

A conflict message appears for the following reasons:

- a show set to Record overlaps with any part of another show previously set to Record,
- a show set to Record overlaps with a show previously set to autotune

Select one of these options:

- record anyway this show will override an existing show set to Record or auto-tune
- don't record this show cancel the Recording







RECORDING CONFLICT! Recording "Nightline" will override the recording for "Jay Leno".

don't record this show

Owner's Manual 53

TV Guide On Screen™ System

Remind

You can set a show Reminder in Listings, Search, and Schedule or change Reminder settings for a show in Schedule. There are 2 ways to set a show Reminder:

1) From a Panel Menu

- Highlight a show, and press Menu to display the Episode Options menu.
- Highlight Set Reminder, and press **ENTER** to display the Remind Options menu.



- •Highlight the Frequency option, and use the left and right arrows to choose among:
- Once sets a show reminder one time
- Regularly . --sets a show reminder every time the show airs on the same channel and starts at the same time

 Weekly . —sets a show reminder each time the show airs on the same day of the week, on the same channel and starts at the same time



- •Power On the TV, if Off, when a Reminder is scheduled. Choices are Yes and No. (Default = No)
- •Automatically tune the TV to the channel (TV must be On), when a Reminder is scheduled. Choices are Yes and No. (Default = No)

•When to display the reminder screen. Choices are 30 seconds to 15 minutes early, to 30 seconds to 15 minutes late, to On time. (Default = 1 min early)

When finished, press **ENTER** to highlight Schedule Reminder. Press **ENTER** again to close the menu. You see a Remind icon for the selected frequency next to the show title.

Highlight Cancel to close the menu, change no information, and return to the highlighted show.



54 DLP Projection TV

2) Manual Reminder

- •Highlight the Schedule Service label, and press the Menu key to display the Schedule Options menu.
- Use the ▲ /▼ / ◄ / ► buttons to move through the options. Use the number or ▲ /▼ / ◀ / ► buttons to change the information, as necessary.
- Highlight New Manual Reminder and press the ENTER key to display the Remind Options menu.
- Current information (i.e., date, start and end times, channel, input, frequency, etc.) is displayed.
- Highlight the Frequency option, and use the ◄ / ► buttons to choose among Once, Daily, Weekly, and Off, as follows.
- Daily _____ --reminds for the time, channel, input, destination combination Monday through Friday
- Weekly . --sets a show reminder for the time, channel, input, destination combination once a week on this selected day of the week
- Off (not cancel) keeps the time, channel, input, destination combination in the list without reminding until the frequency is changed
- •Power On the TV, if Off, when a Reminder is scheduled. Choices are Yes and No (Default =No).
- •Automatically tune the TV to the channel (TV must be On), when a Reminder is scheduled. Choices are Yes and No (Default = No).

When finished, press **ENTER** to highlight Schedule Reminder. Press **ENTER** again to close the menu. You see a Remind icon for the selected frequency next to the show title.

Note: Manual reminder is listed by channel number.

Highlight Cancel to close the menu, change no information, and return to the highlighted show.

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TV Guide On Screen[™] System

-16

Friends

Based on your option settings, a notification screen will appear, if your TV is On at the reminder time. You can then choose to hide the reminder, or highlight the show, and press **ENTER** to tune to the show. If there is no activity for 3 minutes, the notification screen automatically closes and completes the highlighted item (hide reminders).

Reminder/ Nide westeder

Reminder!

8:00pm

If you choose Hide Reminders, the window closes for the show or shows, but does not affect other Reminders you set.

Note: If more than 2 reminders are set for the same time, arrows appear on the Reminder screen. Use the ▲ / ▼ buttons to view the shows.

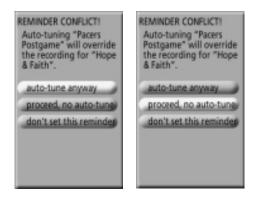
Remind Conflict

A conflict message appears for the following reasons:

- a show set with an Auto-Tune Reminder has the same start time as an existing Auto-Tune Reminder.
- If you are using a cable box, a show set with an Auto-Tune Reminder overlaps with a Recording already scheduled.

Select one of these options:

- auto-tune anyway this show will override an exist-
- ing show set to auto-tune
- proceed, no auto-tune set the show as a Reminder but do not auto-tune
- + don't set this reminder cancel the Reminder





Operation

Turning the TV On

* In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

Turning on the TV just after installation

- 1. Connect power cord correctly.
- Press the POWER button on the TV. At this moment, the TV is switched to standby mode. Press the TV INPUT, TV/VIDEO, CH (▲ / ▼), Number (0 ~ 9) button on the remote control or press the CH (▲ / ▼) button on the TV front panel and then the TV will switch on.

Turning on the TV (power cord is still connected)

1. If the TV was turned off with indicators on the TV

• Check the power cable.

2. If the TV was turned off with the remote control and the POWER button on the TV

Press the POWER button on the TV or press the POWER, TV/VIDEO, CH (▲ / ▼), Number (0 ~ 9) button on the remote control to turn the TV on.

Notes:

- If you intend to be away on vacation, disconnect the power plug from the wall power outlet.
- The TV Guide On Screen and any CableCARD[™] Software upgrades work while the TV is in standby mode. If you pull the power plug cord the TV Guide On Screen will not update its listings and no CableCARD[™] Software upgrades will occur.
- After turning on the TV, it could take up to a week for the TV Guide On Screen system to receive full listings data.

TV Setup

On-screen Menus Language Selection

- The menus can be shown on the screen in the selected language. First select your language.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
- 2. Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select Language.
- Press the ► button and then use ▲ / ▼ button to select your desired language.
 From this point on, the on-screen menus will be shown in the selected language.
- 4. Press \mbox{EXIT} button to return to TV viewing or press \mbox{MENU} button to return to the previous menu.



Setup Menu Options

EZ Scan (Channel Search)

- Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.
- Run EZ Scan again after any Antenna/Cable connection changes.
- A password is required to gain access to EZ Scan menu if the Lock System is turned on.





- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SETUP** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select EZ Scan.
- Press the ► button or ENTER button to begin the channel search. Allow EZ Scan to complete the channel search cycle for TV, DTV, CATV, and CADTV.

Manual Scan

- A password is required to gain access to Manual Scan menu if the Lock System is turned on.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SETUP** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select Manual Scan.
- Press the ► button and then use ▲ / ▼ button to select TV/CADTV/CATV/DTV.
 Press the ► button and then use ▲ / ▼ button to select channel number you want to add or delete.
- 5. Press the ENTER button to add or delete for the channel number.
- 6. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Notes

- This channel number is a physical channel number, which is different from the normal channel number shown in Channel Edit.
- When a cable box connects to the physical channel 2, 3 or 4 in the TV Guide On Screen system Setup, cable channels (CATV or CADTV) will not be scanned by EZ Scan or Manual Scan.
- When CableCARD™ is inserted, CATV and CADTV is not working in EZ Scan and Manual Scan.

Setup Menu Options

Channel Edit

- Create two different types of channel lists in memory: "Custom List" and "Favorite List" from the default channel list created from the EZ Scan channel search.
- A Custom List can be created by toggling each channel on or off with ENTER button. The channels in the Custom List are displayed in black color, and the channels deleted from the Custom List are displayed in gray color. Once a channel is highlighted you can add or delete the channel by referring to the small window at the top-left corner of the screen. You can create your own Favorite List.

Use the **FAV** button on the remote control when a channel is highlighted and then you can add or delete the channel to/from the Favorite List.

- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SETUP** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select Channel Edit.
- 3. Press the ► button. You will now see a screen filled with channel numbers and a preview picture.
- 4. Use ▲ / ▼ / ◄ / ► button to select a channel and then use the ENTER button to add or delete it. Press FAV to add or delete the channel to the Favorite List.
- 5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.





Note:

• When a cable box connects to the physical channel 2, 3, or 4 in TV Guide On Screen Setup, cable channels(CATV or CADTV) will not be editable by Channel Edit. Instead, use the cable box's Channel Edit if available.

DTV Signal Strength

- Shows DTV signal levels which are received to your TV whether you need to adjust your antenna or digital
- cable input. The higher the signal strength, the less likely you are to experience picture degradation.
- DTV Signals: Only when the input signal is DTV or CADTV, this function is available.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SETUP** menu.
- Press the ► button and then use ▲ / ▼ button to select DTV Signal.
- View the on-screen signal strength monitor to see the quality of the signal being received.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.

Channel Label Setup

- Choose preset labels for your channels.
- If a channel label is provided on the signal from the broadcasting station, the TV displays a short name for a DTV channel - even if you didn't preset a label for the channel.

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- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SETUP** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select Channel Label.
- 3. Press the ► button. You will now see a screen filled with Labels and a preview screen.
- 4. Use the CH ▲ / ▼ button to select a channel to Label.
- 5. Use ▲ / ▼ / ◄ / ► button to select the appropriate label for the channel, then press ENTER button to set the Label to the selected channel.
- If you press ENTER button in TV viewing mode, you will see the channel banner. ---->



Main Picture Source Selection

- Changes the picture source so you can watch your off-air TV, cable TV, VCR, DVD, or any other devices that are connected to your TV.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SETUP** menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select Main Input.
- 3. Press the ▶ button and then use ▲ / ▼ button to select the source: Antenna, Cable, Video1, Video2, Front Video, Component1, Component2, RGB-DTV (or RGB-PC), HDMI1/DVI or HDMI2.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.

SETUP SETUP AUDIO AUDIO TIME OPTION LOCX CABLE	EZ Scen Manual Scan Channel Edit ITV Signal Channel Label Main Input Sub Input Input Label	 ✓ Antenna Cable Video1 (Cable Box) Video2 Frant Video Compenent1 Compenent12 RS9-01V HEMI2
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Input Label

- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SETUP** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select Input Label.
- 3. Press the ▶ button and then use ▲ / ♥ button to select the source: Video1, Video2, Front Video, Component1, Component2, RGB, HDMI1/DVI or HDMI2.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.

Owner's Manual 61

- Adjust the picture appearance to suit your preference and viewing situations.

- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **VIDEO** menu.
- Press the ► button and then use ▲ / ▼ button to select the desired picture option (Contrast,

Audio Menu Options

Audio Language

- Other languages may be available if a digital signal is provided by the broadcasting station.
- 1. Press the MENU button and then use ▲ / ▼ button to select the AUDIO menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select Audio Language.
- 3. Press the ► button and then use ▲ / ▼ button to select: English, Spanish, or French.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.



EZ SoundRite

- Scans for changes in sound level during commercials, then adjusts the sound to match the specified audio level. SoundRite makes sure that the volume level remains consistent whether you are watching a commercial or a regular TV program.
- 1. Press the MENU button and then use ▲ / ▼ button to select the AUDIO menu.
- 2. Press the ► button and then use ▲ / ▼ button to select EZ SoundRite.
- 3. Press the ▶ button and then use ▲ / ▼ button to select **On** or **Off**.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.



EZ Sound

- EZ Sound lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.
- When adjusting sound options (treble, bass, and front surround) manually, EZ Sound automatically switches Custom.
 Normal, Stadium, News, Music and Theater are preset for good sound quality at the factory and are not adjustable.
- 1. Press the EZ SOUND button repeatedly to select the appropriate sound setup as shown below: Custom (your own settings), Normal, Stadium, News, Music and Theater.
- You can also adjust **EZ Sound** in the **AUDIO** menu.
- 2. Press EXIT button to save and return to TV viewing.

Manual Sound Control (Custom option)

- Adjust the sound to suit your taste and room situations.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **AUDIO** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select the desired sound option (Balance, Treble, or Bass).
- 3. Press the ► button and then use < / ► button to make appropriate adjustments.
- 4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Owner's Manual 63

Audio Menu Options

Front Surround

- SRS() is a trademark of SRS Labs, Inc.
- TruSurround XT technology is incorporated under license from SRS Labs, Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **AUDIO** menu.
- 2. Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Front Surround**.
- 3. Press the ► button and then use ▲ / ▼ button to select Off, 3D EchoSound System or SRS (Sound Retrieval System) TruSurround XT.

3D EchoSound System

Creates a stunning simulated stereo effects from any mono sound and a realistic three-dimensional sound with a very wide and deep sound stage into stereo sound

SRS TruSurround XT

Takes advantage of any multi-channel format without needing to add extra speakers or equipment. Dialog clarity, bass enrichment, and the addition of stereo audio enhancement that produces an immersive sound experience from standard stereo material.

4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

TV Speaker On/Off Setup

- Turn TV speaker off if using external audio equipment. Feature turns the TV Speaker option On or Off.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **AUDIO** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select **TV Speaker**.
- 3. Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **On** or **Off**.
- 4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.





Stereo/SAP Broadcasts Setup

- This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program; if the station transmits an additional sound signal as well as the original one.
- When having selected Stereo or SAP button on the remote control, this TV can only receive the signal when the TV station transmits the proper signals.
- Mono sound is automatically received if the broadcast is only in Mono; even though Stereo or SAP has been selected.
- Select Mono if you want to listen to the mono sound in remote fringe areas during stereo/SAP broadcasting.
- Stereo or SAP can be received in Analog channel.
- 1. Use the SAP button to select your desired MTS mode in analog signal. Each time you press the SAP button, Mono, Stereo, or SAP appear in turn.
- If other languages available on the digital signal, select them with the SAP button.
- 2. Press **EXIT** button to save and return to TV viewing.

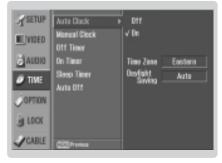
Time Menu Options

Auto Clock Setup

- The time is set automatically from a digital channel signal.
- The digital channel signal includes information for the current time provided by the broadcasting station.
- Set the clock manually, if the current time is set incorrectly by the auto clock function.
- When you set up TV Guide, Auto Clock menu is not selected.
- 1. Press the MENU button and then use ▲ / ▼ button to select the TIME menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select Auto Clock.
- 3. Press the ▶ button and then use ▲ / ▼ button to select **On**.
- 4. Press the ▶ button and then use ▲ / ▼ button to select your viewing area time zone: Eastern, Central, Mountain, Pacific, Alaska, or Hawaii.
- 5. Press the ▶ button and then use ▲ / ▼ button to set Daylight Saving Auto, Off or On, depending on whether or not your viewing area observes Daylight Savings Time.
- 6. Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.

Manual Clock Setup

- If current time setting is wrong, reset the clock manually.
- When you set up TV Guide, Manual Clock menu is not set.
- 1. Press the MENU button and then use ▲ / ▼ button to select the TIME menu.
- Press the button and then use ▲ /▼ button to select Manual Clock.
- 3. Press the ▶ button and then use ◄ / ▶ button to select either the year, date, or time option. Once selected, use the ▲ / ▼ button to set the year, date, and time options
- 4. Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.





On/Off Timer Setup

- Timer function operates only if current time has been set.
- Off-Timer function overrides On-Timer function if they are both set to the same time.
- The TV must be in standby mode for the On-Timer to work.
- If you do not press any button within 2 hours after the TV turns on with the On Timer function, the TV will automatically revert to standby mode.
- 1. Press the MENU button and then use ▲ / ▼ button to select the TIME menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select **Off Timer** or **On Timer**.
- 3. Press the ▶ button and then use ▲ /▼ button to select **On**. To cancel On/Off timer function, select Off.
- 4. Press the ► button and then use ▲ / ▼ button to set the hour.
- 5. Press the ► button and then use ▲ / ▼ button to set the minutes.
- 6. For only On timer function
 - Press the ► button and then use ▲ / ▼ button to select the channel at turn-on. Press the \blacktriangleright button and then use \blacktriangle $\sqrt{\checkmark}$ button to set the sound level at turn-on.
- 7. Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.



Time Menu Options

Sleep Timer

- The Sleep Timer turns the TV off at the preset time. Note that this setting is cleared when the TV is turned off.
- You can also set up the Sleep Timer in the TIME menu.
- 1. Press the **TIMER** button repeatedly to select the number of minutes. First the **Ott** option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
- 2. When the number of minutes you want is displayed on the screen, press the **ENTER** button. The timer begins to count down from the number of minutes selected.
- 3. To check the remaining minutes before the TV turns off, press the TIMER button once.
- 4. To cancel the Sleep Timer, press the TIMER button repeatedly to select Off.

Auto Off

- If set to on and there is no input signal, the TV turns off automatically after 10 minutes.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIME** menu.
- 2. Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Auto Off**.
- 3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
- 4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Option Menu Options

Aspect Ratio Control

- Lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV with a 16:9 ratio picture format. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed.
- If you are viewing a picture with a 16:9 aspect ratio, you can't use the Horizon aspect ratio option.
- Horizon aspect ratio is not available for Component 1-2 (720p/1080i)/RGB-DTV (720p/1080i)//HDMI1/DVI-DTV
- (720p/1080i)/DTV(720p/1080i), HDMI2-DTV(720p/1080i) input source.
- RGB-PC/DVI-PC input source use 4:3 or 16:9 aspect ratio.
- 1. Press the **RATIO** button repeatedly to select the desired picture format. You can also adjust the **Aspect Ratio** in the **OPTION** menu.

Set By Program

Selects the proper picture proportion to match the source's image. $(4:3 \rightarrow 4:3, 16:9 \rightarrow 16:9)$

• 4:3

Choose **4:3** when you want to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.

• 16:9

Choose 16:9 when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen.

Horizon

Choose **Horizon** when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view.

• Zoom 1

Choose **Zoom 1** when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

• Zoom 2

Choose **Zoom 2** when you want the picture to be altered, both horizontally extended and vertically cropped. The picture taking a halfway trade off between alteration and screen coverage.

• Cinema Zoom

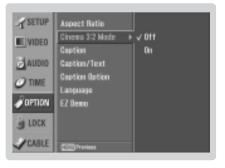
Choose **Cinema Zoom** when you want to enlarge the picture in correct proportion. Note: When enlarging or reducing the picture, the image may become distorted.

You can adjust the enlarge proportion of Cinema Zoom using ▲ / ▼ button. The adjustment range is 1~16.

Cinema 3:2 Mode Setup

- Most movies are 24 frames/sec, but TV signal is 30 frames/sec. This option lets the TV do 3:2 pull-down operation for you to watch movies at the best motion appearance.
- 1. Press the **MENU** button and then use ▲ /▼ button to select the **OPTION** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select Cinema 3:2 Mode.
- 3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.

Note: This feature operates only in 480i mode.

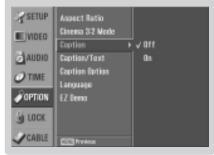


Owner's Manual 67

Option Menu Options

Caption

- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
- 2. Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Caption**.
- 3. Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **On** or **Off**.
- 4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Caption/Text

Analog Broadcasting System Captions

- Select a caption mode for displaying captioning information if provided on a program.
- Analog caption displays information at any position on the screen usually the program's dialog.
- Text displays information, usually at the bottom position and is used for a data service, generally not program related.
- Caption/Text, if provided by the broadcaster, would be available for both digital and analog channels on the Antenna/Cable.
- This TV is programmed to remember the caption/text mode it was last set to, when you turn the power off.
- 1. Use the CC button repeatedly to select Caption CC1, CC2, CC3, CC4, Text1, Text2, Text3, or Text4.
- EZ Mute shows the selected captions option (if available on program) when the TV sound is muted
- 2. Press EXIT button to save and return to TV viewing.
 - You can also use the OPTION menu to select Caption/Text.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
- 2. Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Caption/Text**.
- 3. Press the ► button and then use ▲ / ▼ button to select caption: CC1, CC2, CC3, CC4, Text1, Text2, Text3, or Text4.

• CAPTION

The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.

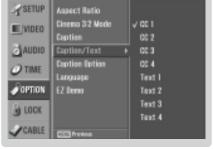
• TEXT

The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Digital Broadcasting System Captions

- Choose the language you want the DTV/CADTV Captions to appear in.
- Languages can be chosen for digital sources only if they are included on the program.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select Caption/Text.
- Press the ► button and then use ▲ / ▼ button to select available caption languages: English, Spanish, or French.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.





Caption Option

- Customize the DTV/CADTV captions that appear on your screen.
- Press the MENU button and then use ▲ / ▼ button to select the OPTION menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select Caption Option.
- 3. Press the ► button and then use ◄ / ► button to select Custom.
- Use ▲ / ▼ button to customize the Style, Font, etc., to your preference. A preview icon is provided at the bottom of the screen, use it to see the caption language.
 - Size: Set the size the words will appear in.
 - Font: Select a typeface for the words.
 - Text Color: Choose a color for the text.
 - Text Opacity: Specify the opacity for the text color.
 - Bg (Background) Color: Select a background color.
 - Bg (Background) Opacity: Select the opacity for the background color.
 - Edge Type: Select an edge type.
 - Edge Color: Select a color for the edges.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.

SETUP	Aspect Ratio	Style	Caston
III VIDED	Cinena 32 Node	Size	3 Standard
in the second	Caption	First	Fatt
aloun 5	Caption/Text	Text Color	Vil:
Ø THE	Castion Dation	Test Opacity	Salid
U inc	Language	Be Color	Ellack
ØOPTION	E2 lieno	Be Reacity	Salid
Si LOCK		Edge Type	None
Jun		Edge Color	Black
CABLE	(Citrine		

EZ Demo

Shows you how to navigate the TV's on-screen menus.

EZ Demo Use to scan the features and menu options available on your TV.

- Press the MENU button and then use ▲ / ▼ button to select the OPTION menu.
- Press the ► button and then use ▲ / ▼ button to select EZ Demo, then use the ► button to start EZ Demo.
- 3. Press EXIT button to stop EZ Demo.



Lock Menu Options

Parental Control can be used to block specific channels, ratings and other viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked. It is also possible to block all program viewing for a time period. To use this function, the following must be done :

- 1. Set ratings and categories to be blocked.
- 2. Specify a password
- 3. Enable the lock

V-Chip rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

Ratings for Movies previously shown in theaters:

Movie Ratings :

motio manigo i	
 Blocking Off 	(Permits all programs)
• G	(General audience)
• PG	(Parental guidance suggested)
• PG-13	(Parents strongly cautioned)
• R	(Restricted)
• NC-17	(No one 17 and under admitted)
• X	(Adult only)

If you set PG-13 : G and PG movies will be available , PG-13, R, NC-17 and X will be blocked.

Ratings for Television programs including made-for-TV movies :

• TV-G • TV-PG • TV-14 • TV-MA • TV-Y • TV-Y7	(General audience) (Parental guidance suggested) (Parents strongly cautioned) (Mature audience only) (All children) (Children 7 years older)
TV Rating Children:	
• Age	(applies to TV-Y, TV-Y7)
 Fantasy Violence 	(applies to TV-Y7)
TV Rating General:	
• Age	(applies to TV-G, TV-PG, TV-14, TV-MA)
• Dialogue - sexual dialogu	e (applies to TV-PG, TV-14)
· Language - adult language	(applies to TV-PG, TV-14, TV-MA)
Sex - sexual situations	(applies to TV-PG, TV-14, TV-MA)
Violence	(applies to TV-PG, TV-14, TV-MA)
Input Block • Video 1, 2, Front Video	(On, Off)
 Component 1, 2 	(On, Off)

• RGB, HDMI1/DVI or HDMI2 (On, Off)

Parental Lock Setup

- Set up blocking schemes to block specific channels, ratings, and external viewing sources.
- A password is required to gain access to this menu.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **LOCK** menu. Then, press the ► button
 - Enter the password as requested.
 - The TV is set up with the initial password "0-0-0-0".
- Use the ▲ / ▼ button to choose from the following Lock Menu options. Once the option is selected, change the settings to your preference.
 - Lock System: Activates or disables the blocking scheme you set up previously.
 - Set Password: Change the password by inputting a new password twice.
 - Block Channel: Blocks any channels that you do not want to watch or that you do not want your children to watch.
 - Movie Rating (MPAA): Blocks movies according to the movie ratings limits specified, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movies shown on TV, not TV programs, such as soap operas.
 - TV Rating-Children: Prevents children from watching certain children's TV programs, according to the ratings limit set. The children rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating sub menu, your children can view those programs.
 - TV Rating-General: Based on the ratings, blocks certain TV programs that you and your family do not want to view.
 - **Input Block:** Enables you to select a source to block from the external source devices you have hooked up.
- Press EXIT button to return to TV viewing or press MENU button to return to the previous menu.
- **Note** : If you ever forget your password, key in '7', '7', '7', '7' on the remote con trol.



Cable menu options

- The Cable sub menu displays when inserting the CableCARD[™] to the TV.
- The CableCARD[™] type is Motorola, Scientific Atlanta (SA), or SCM etc. The OSD (On screen display) is different from your TV according to your CableCARD[™] type.
- Press the MENU button and then use ▲ / ▼ button to select the CABLE menu.
- 2. Press the ► button and then use ▲ / ▼ button to select your desired item.
- 3. Press the ► button.
- 4. Press EXIT button to return to TV viewing.

In case of Scientific Atlanta CableCARD™

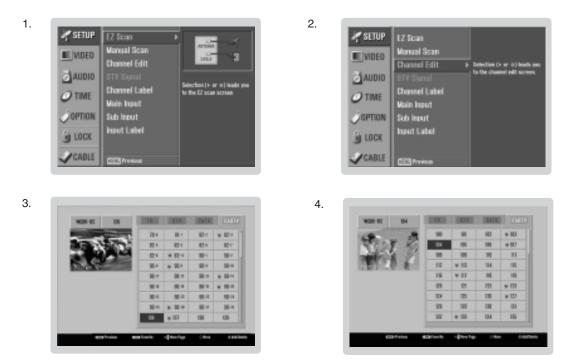


Scrambled channel

- Insert the CableCARD[™]. If you do it at first, it takes about 1 minute to exchange the data between the TV and the CableCARD[™]. Then, TV screen displays as shown right.
- Let your cable TV service provider know the CableCARD™ ID and Host ID.
- If your cable TV service provider has registered the CableCARD[™] ID and Host ID, you can watch the premium or high value channel.
- If you ever registered to the cable TV service provider, you can watch the premium or high value channel without a message.

- If the certificate doesn't match between the TV and the cableCARD[™], the OSD (On screen display) displays as shown left.

Cable Channel List



- 1. If you enter the **Channel Edit** after running the EZ Scan without CableCARD[™], you can see the cable channel list as the picture 3 above.
- Insert the CableCARD[™]. Then, the TV will receive a new cable channel list which is usually one part channel. It takes about 2~3 minutes to gather the cable channel list after inserting the CableCARD[™] as the picture 4 above. (Occasionally more than that time)

Note:

• As data gathering is done by the CableCARD[™], you may hear a fan run in standby mode.

Emergency Alert Message

- If an emergency situation occurs while watching the TV/DTV/CATV/CADTV, you can see a message from cable TV service provider(s).
- When receiving an emergency message, the message is displayed on the screen as shown below or the channel is changed automatically to a channel that maintains the emergency message. The message will automatically disappear.





- You can use the JPEG and MP3 file by memorizing to Memory card in Xstund mode.

Notes on Memory Card

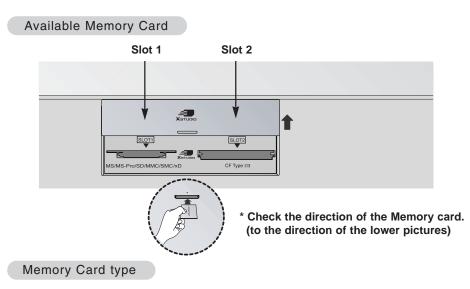
Memory Card

This is a device equipment to communicate the data between AV external equipment. It's used to a digital camera,

camcorder, MP3 player, notebook or PDA.

Precaution for Using the Memory Card

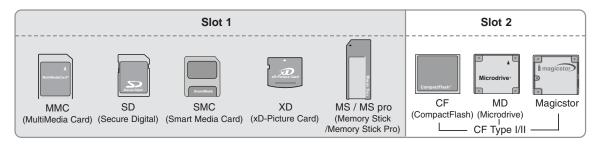
- Please be sure to insert the correct memory card type in the right direction. (Confirm between the two memory slots before insertion.)
- Don't insert the metal substances into the slots of the memory card.
- Do not bend, drop or apply strong shock to memory card.
- After pulling the memory card out from the TV, please keep the memory stick in a appropriate case to prevent it from static shock.
- The stored data may be changed or lost as a result of misuse, static electricity.
- Do not turn the power off while the memory card is in operation.
- Don't eject the memory card while in use. Otherwise, it may cause a data loss or card damage.
- Insert only one card to each slot.
- To prevent a change or loss for stored data, don't misuse the TV or don't let static electricity or electrical noise for TV.
- This Company takes no responsibility for problems such as the damage or malfunction that occurs while using the TV set, inappropriate TV settings, or any other reasons, except for defects or malfunctions intrinsic to the product.
- Ensure to use a memory card that lists the manufacturers name and serial number.
- The manufacturer will not be responsible for any data damage. Making back up data is strongly recommended.
- Make sure to comply with the following steps when ejecting a memory card.
- Each Memory Card is complied with standard.



- Use the specified card based on the slot location.

- 8 types of Memory Card can be used for this set.

- NTFS file system is not supported.



Available file in XSTUDIO mode

A sort of file	Photo Image (JPEG)	Music File (MP3)			
Compatilbility	*.jpg	*.mp3			
Memory card capacity	CF: 2GB SMC: 128MB Microdrive: 2GB CF Type I/II XD: 512MB Magicstor: 2.2GB MS: 128MB MMC: 256MB MS PRO: 1GB SD: 512MB - Some MagicStor Plus cards are not usable.				
	An error may occur if you use a memory card with greater than the specified capacity.				
Unsupported or damaged file	Unsupported or damaged JPEG or MP3 files can cause errors. Do not try to change the file extension of unsupported file types to the file extension of supported file types.				

- Playback speed can vary dependent on the card type.

- You can assign 8 characters for the file name of the card. If the file name is longer than 8 characters, it will be truncated at 6 digits and "~1, 2, 3, and 4" will be appended to the 7-8th position.

Owner's Manual 75

Notes on Memory Card

The JPEG Decoding/The Image Preview Supplied Spec

	Compress	ion Method	Colour format		
	Baseline	Progressive	4:4:4 11:11:11 (Ү, Сь, Сг)	4:2:2 21:11:11 (Ү, Сь, Сг) 12:11:11 (Ү, Сь, Сг)	4:2:0 22:11:11 (Y, Cь, Cr)
JPEG Decoding Support	0	Х	Х	0	0
Image Display	Image	invalid format	invalid format	Image	Image
Preview Image Display	Display when there is no thumbnail.	П	П	Display P when there is no thumbnail.	Display n when there is no thumbnail.

- If a error occur when decoding the JPEG, "Corrupted file" is displayed on screen.

How to insert and eject the card

Inserting a Card

- 1. Insert the card into the Slot 1 and/or Slot 2 with the hand softly and slowly.
- 2. Press the xerumo button to enter the XSTUDID mode. Press the xerumo button again to exit the XSTUDID mode.

Ejecting a card

- 1. Press the M/C EJECT button on the remote control.
- Press ▲ / ▼ button to Select the Memory 1 Eject or Memory 2 Eject based on the inserted card location.
 If selecting Cancel, OSD will disapear.

Memory 2 Eject	nory 1 Eje	ect 💿
	nory 2 Eje	ect
Cancel	cel	

3. Eject the card with the hand.

Notes:

- Screen saver will appear if you do not remove the card with the hand after operating the eject function.
- When entering the photo or music media at first, the **M/C EJECT** button will not work. It's possible to use the **M/C EJECT** button during using the photo or music media.



Caution: Press the M/C EJECT button of remote control before removing the memory card. Failure to do so may damage the card. * In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

Select the Photo or Music Media

- When you plug a memory card or press the xsrunn button, the below screens will be displayed.

? Please select where to move					
Memory 1	MS/Pro				
😰 Photo	Music				
Memory 2	CF/MD				
Photo	Music				
	Χστυρίο Exit				

- 1. Press \land / \checkmark / \checkmark / \checkmark button to select photo or music for slot1/2.
- 2. Press the ENTER button to enter the photo or music media.
- 3. Press the studie button to exit the **X**STUDIE mode.

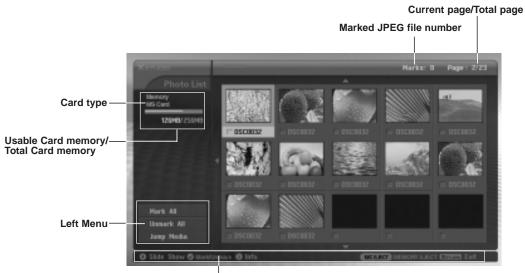
Notes:

- The OSD of the ejected card slot is inactivated when ejecting the card with the hand.
- If there is any error in a memory card, it's impossible to enter אבד mode.

JPEG File Viewing Options

- When you select Photo in entry menu, you will now see a screen filled with thumbnail photo media.
- * In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

Screen Components



Direct Buttons

Photo Selection and PopUp menu

- Select your desired image file.



- 1. Insert the memory card to Slot 1 and/or Slot 2 on the TV front panel.
- 2. Press the xstudio button.
- 3. Use \blacktriangle / \bigtriangledown / \checkmark / \blacklozenge button to select photo media for slot1 or slot 2.
- 4. Press the ENTER button to enter the photo media. *Note: It's possible to display 15 JPEG files per page.*
- 5. Press the ▲ / ▼ / ◀ / ► button to select JPEG file and then press the ENTER button.
- Press the ▲ / ▼ button to select View and then press the ENTER button. The selected image will display on entire screen.

Mark/Unmark for JPEG file

- You can mark/unmark the file to view the desired file or use slide show for desired file conveniently.
- The selected file displays orange in color.
- When pressing the ENTER button after marking some a file, the marked file displays green in color.



Mark/Unmark for all files

- 1. In photo media, repeatedly press ◄ button to enter the menu on the left.
- 2. Press the ▲ / ▼ button to select Mark All or Unmark All.
 - If you select Mark All, every file is selected.
 - If you select **Unmark All**, the selection for every file is released.
- 3. Press the ENTER button and then ► button to return to the photo list.
- Mark/Unmark for some file

Press the MARK button repeatedly to mark or unmark some JPEG file.

Jump Media

- Use this funcion to jump to other media during using photo media.



10	Please select w	vhere to move	10
Hintory Hittory	Memory 1	MS/P	ro
	😰 Photo	Music	
	Memory 2	CF/M	di di
	Photo	Music	
Here is		. (- 11
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O links lines O	lational @Ms	C103 March 1	LACT CORES THE

- 1. In photo media, press ◀ button repeatedly to enter the left menu.
- 2. Press the \blacktriangle / \bigtriangledown button to select **Jump media** and then press the **ENTER** button.
- Press the ▲ / ▼ / ◄ / ► button to select desired media and then press the ENTER button. The screen displays each media list.

JPEG File Viewing Options

The Image Adjustment

- You can display the selected image on entire screen and do the various adjustment for the JPEG file.



- 1. Press the ▲ / ▼ / ◀ / ▶ button to select JPEG file and then press the ENTER button.
- 2. Press the **A** / **V** button to select **View** and then press the **ENTER** button The selected image will display on entire screen.
- 3. Adjust the JPEG file.



Image selection	 Press the ▶ button to select next image. Press the ◄ button to select previous image. If you mark for a file, you can see only the marked image. 		
Image Rotation	 Press the ▲ / ▼ button to rotate the image. ▲: Rotate clockwise ▼: Rotate counterclockwise The enlarged image cannot be rotated. 		
Image Zoom In/Out	 Press the CH ▲ / ▼ button to enlarge or reduce the image 2 or 4 times. Press the ▲ / ▼ / ◄ / ► button to move the enlarged image. 		
Image Deletion	• Press the MARK button to delete the current image.		
Go to the Menu	• Press the EXIT button to return to the photo list.		
Shown/Hidden the menu	 Each press of the ENTER button, the menu will tog- gle hidden or shown. The OSD menu will automatically disappear after a while. 		

80 DLP Projection TV

Slide Show



- 1. Press the ▲ / ▼ / ◀ / ▶ button to select JPEG file and then press the ENTER button.
- Press the ▲ / ▼ button to select Slide Show or Show Marked and then press the ENTER button. (If you mark the file with using MARK button, Show Marked is displayed on screen.)



- You can choose the slide show delayed time and effect.
 Press the ▲ / ▼ / ◄ / ► button to choose the slide show delayed time and effect.
- 4. Press the ▲ / ▼ / ◀ / ► button to select **OK**. Slide show start.

Notes:

- You can also operate the **Slide Show** or **Show Marked** with button directly as shown.
- If you mark for a file, slide show will show only the marked image.



Next / previous Image Selection	 Press the button to select next image. Press the dutton to select previous image. 	
Image Pause	 Press the II button to pause the current image. Press the → button to restart the slide show. By pressing < / > button, you can also select the next or previous image while pausing the image. 	
Go to the menu	• Press the EXIT button to return to the photo list.	
Shown/Hidden the menu	 Each press of the ENTER button, the menu is toggle hidden or shown. The OSD menu will automatically disappear after a while. 	

JPEG File Viewing Options

JPEG file Deletion and Cancel



- 1. Use the ▲ / ▼ / ◄ / ► button to select JPEG file and then press the ENTER button.
- 2. To delete the file, press the ▲ / ▼ button to select **Delete** and then press the **ENTER** button. When "Do you want to delete the file?" message is displayed, select **YES** (**YES** or **NO**) with ◄ / ► button. The file is deleted, all the following files are shifted up one position.

* If you select **Delete** after marking some file, all of the marked file is deleted. But in case MS,SMC,SD memory card setted the write protection, "Protection Mode. Please push the **OK** button." message is displayed. When you select the **OK**, the sereen will return to the photo list.(Release the write protection to delete a JPEG file.)

3. To return to the photo list, press the ▲ / ▼ button to select **Cancel** and then press the ENTER button.

File Information

- Use it to check information for selected JPEG file.



- 1. In photo media, select your desired JPEG file.
- Press the INFO button. The file information for selected JPEG file is displayed. If JPEG file has no information, you can't check it.
- 3. Press the ENTER, EXIT or INFO button to return to the photo list.

Screen Saver

- If you don't press any button about 30 secondes while displaying the photo list, the screen saver is worked.



• Press the ▲ / ▼ / ◄ / ▶, EXIT, ▶(play), II, ■, I≪, ▶▶, INFO, CH ▲ / ▼, MARK buttons to release the screen saver.

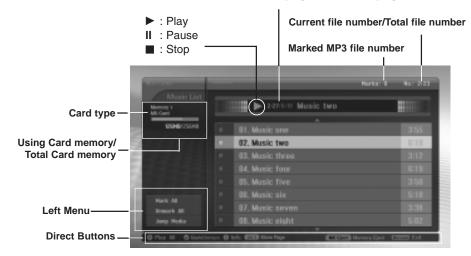
82 DLP Projection TV

MP3 File Playing Operation

- Purchased MP3/music files may contain copyright restrictions. Playback of these files may not be supported by this model.

Screen Components

Current Playing Time/Total Playing Time



MP3 File Selection and Playback

- MP3 file Selection and deletion function don't work while playing music.
- If pressing any button except 🙉, 🖬 , 🗭 button on the remote control while playing music, the music playing is stopped.
- Moves from the current 8 files list to the next files list with CH ▲ / ▼ button.



- 1. Insert the memory card into Slot 1 and/or Slot 2 on the TV front panel.
- 2. Press the **x**studio button.
- 3. Use \blacktriangle / \bigtriangledown / \checkmark / \blacklozenge button to select music media for slot1 or slot 2.
- 4. Press the ENTER button to enter the music media. *Note:* It's possible to display 8 MP3 files per page.
- 5. Press the ▲ / ▼ button to select desired MP3 file and then press the ENTER button.
- 6. Press the ▲ / ▼ button to select **Play** or **Play Marked** and then press the **ENTER** button.(If you mark the file with using **MARK** button, **Play Marked** is displayed on screen.)

Notes:

- You can also play the music with **button** directly.
- The current playing MP3 file displays 🗾 in front of the title.
- While playing music, press the I d or bit button to select the previous or next music directly.
- If you press the I◄◀ button while playing music, the MP3 will replay from beginning. (If you press the I◄◀ button within 1~2 seconds after playing the music, the MP3 plays the previous file.)

Owner's Manual 83

MP3 File Playing Operation

* In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

Stop/Pause Playback

Stop Playback

To stop playback, press the ■ button on the remote control.

To stop playback, press the ENTER, VOL (\triangleleft / \triangleright), CH (\blacktriangle / \blacktriangledown) button on the TV. *Notes:*

- If you replay the MP3 file after stopping, the highlighted MP3 file on menu will play.
- On stopping, VOL (◀ / ►) and CH (▲ / ▼) buttons on the TV are used to navigate.

Pause Playback

- 1. Press the II button to pause playback.
- 2. Press the II or is button to starts from the point of your paused part.

Mark/Unmark for MP3 file

- You can mark/unmark the file to play the desired file only.
- The menu on the left can be used when playback is stoped.

-		Harks. 2 Ro. 2/21
Music Liet	🕨 🕨 zerom Music two	
10-044		
STAND TO DO		
	02. Music two	8:19
No.5 10		
Umark All		
	EB, Music eight	510
Hark All Unmark All Jump Hodia		

Mark/Unmark for all files

- 1. In music media, press the ◀ button.
- 2. Press the ▲ / ▼ button to select Mark All or Unmark All.
 - If you select Mark All, every file is selected.
 - If you select Unmark All, the selection for every file is released.
- 3. Press the ENTER button and then ► button to return to the music list.

Mark/Unmark for some file

Press the MARK button repeatedly to mark or unmark some MP3 file.

Jump Media

- Use this funcion to jump to other media during using music media.

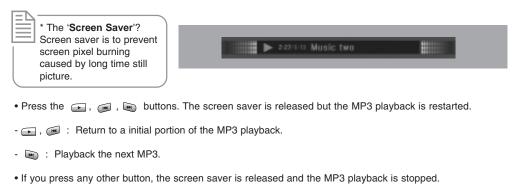
-		Arter B. Mc 202	
Mask List	► 201411 Masis two	1000	Please select where to move
096396			Memory 1 MS
Contraction of the second	EL. Music ano	2851	Photo Music
	E2. Music two	1:13	Prioto p Wiusic
	E3. Music three	3.12	•• >
	64. Music fear	611	Memory 2 CF/
		251	Photo D Music
	Di. Music six	511	Prioto privilasie
Unext III		321	
Junp Bella	RI, Music eight	5.82	Cancel
	 th 60 toolog CCC3 too	- Det Eller	10 mil

- 1. In music media, press the ◀ button.
- 2. Press the \blacktriangle / \blacktriangledown button to select Jump media and then press the ENTER button.
- Press the ▲ / ▼ / ◄ / ► button to select desired media and then press the ENTER button. The screen displays each media list.

Screen Saver

- If you don't press any button for about 30 secondes, the screen saver is activated.

• During playing the MP3



• During stopping the MP3



Press the ▲ / ▼ / ◄ / ►, EXIT, ►(play), II, ■, I◀◀, ►►I, INFO, CH ▲ / ▼, MARK buttons to release the screen saver.

MP3 File Playing Operation

MP3 file deletion and Cancel

- It's impossible to delete the music during playback.

P. C. B. C. C.		66 B Ha 20
Music List	📄 🕨 zanom Music two	
No tait		
194/2004		
	02. Music two	6:19
	ES Music divers	
	Play Play	
	Delete 💿	
100.00	Cancel	
Hark M	07	
Junp Nada	DB, Music eight	

- 1. Use the \blacktriangle / \blacktriangledown button to select MP3 file and then press the **ENTER** button.
- To delete the file, press the ▲ / ▼ button to select Delete and then press the ENTER button. When "Do you want to delete the file?" message is displayed, select YES (YES or NO) with ◄ / ► button. The file is deleted, all the following files are shifted up one position.

* If you select **Delete** after marking some files,, all of the marked files are deleted. But in case MS,SMC,SD memory card setted the write protection, "Protection Mode. Please push the **OK** button." message is displayed. When you select the **OK**, the sereen is returned to the photo list.(Release the write protection to delete a MP3 file.)

3. To return to the music list, press the **A** / **V** button to select **Cancel** and then press the **ENTER** button.

File Information

- Use it to check information for selected MP3 file.



- 1. In music media, select your desired MP3 file.
- 2. Press the **INFO** button. The file information for selected MP3 file is displayed. If MP3 file has no information, you can't check it.
- 3. Press the ENTER, EXIT or INFO button to return the previous menu.

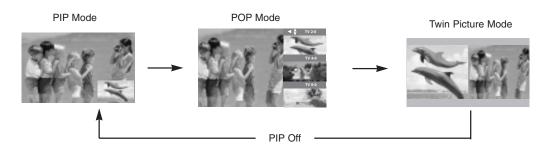
Remote Control

PIP (Picture-In-Picture) / POP / Twin Picture

- PIP lets you view 2 different inputs (sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.
- Twin Picture mode splits the screen into 2, allowing 2 picture sources to be shown on the TV screen at the same time. Each source is given half the screen.
- If you set the block/rating for Lock menu options in PIP/Twin Picture mode, "Rating Blocked" doesn't display on screen.

Watching PIP/POP/Twin Picture

Press the PIP button to access the sub picture. Each press of PIP changes the PIP options as shown below.



Selecting an Input Signal Source for PIP/Twin Picture

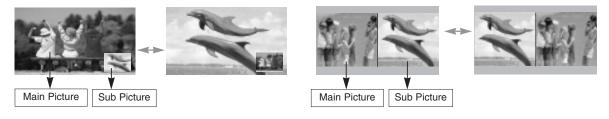
Use the **PIP INPUT** button to select the input source for the sub picture. Each press of **PIP INPUT** button changes the PIP source. You can also select sources for the **Sub Input** in the **SETUP** menu.

Main Picture Source	Available Sub Picture Sources
DTV	Analog, Video, and Front Video
Analog	DTV, Analog, Video, and Front Video

Swapping the PIP/Twin Picture

Repeatedly, use the SWAP button to switch the main and sub pictures.

 Component 1, Component 2, RGB-PC (or RGB-DTV), HDMI/DVI input sources for the main picture can't be used to swap the main and sub pictures.



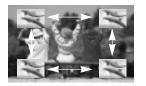
TV Program selection for PIP

1. Press the PIP button.

 Select the Antenna or Cable option on the Sub input menu or with the PIP INPUT button. Use the PIPCH+ / PIPCH- button to select a channel for the sub picture. (You can't select DTV for main and sub picture simultaneously).

Moving the PIP sub picture

In PIP mode, press the \blacktriangle / \bigtriangledown / \checkmark / \blacktriangleright button to move the sub picture to a different location on the screen.



Adjusting Main and Sub Picture Sizes for Twin Picture

Use the ▲ / ▼ / ◄ / ► button to change main and sub picture sizes in Twin Picture mode.



If screen is adjusted to the maximal size, the large screen appears the black part at both the up and down sides.

POP (Picture-out-of-Picture: Channel Scan)

- Use POP to search the programs of all the memorized channels one-by-one on the 3 PIP screen display, (while the main picture source remains the current channel). The pictures of all the programmed channels are searched with the 3 POP screen.
- Notes:

•Run EZ Scan channel search before using POP mode.
•When Sub pictures are changed from the TV/DTV to CATV/CADTV in POP mode, a noise may be heard from the Tuner switch.

- 1. Press the PIP button to activate the POP mode while in PIP mode.
 - Channel selection: Use ◀ button to enlarge the selected channel being searched on the PIP screen to shift it for viewing on the Main screen.
 - PIP selection: Use ▲ / ▼ button to select one of 3 PIP screen pictures in POP mode.
 - When watching TV on Main picture, TV or DTV on Sub pictures are in channel scanning. However, when watching DTV on Main picture, only TV on Sub picture is in channel scanning.



2. Press the EXIT button to cancel POP mode.

APM (Adaptive Picture Mode)

- Allows a viewer to select their preferred picture mode after compairing the four different picture (Daylight, Normal, Night Time and Custom) settings.



- 1. Press the APM button at once. As shown below, the screen is divided to 4-split.
- 2. Use the ▲ / ▼ / ◀ / ► button to navigate 4 EZ Pictures.
- 3. By pressing the $\ensuremath{\mathsf{ENTER}}$ button, you can select the desired mode.
- 4. Press EXIT button to return to TV viewing.

Notes:

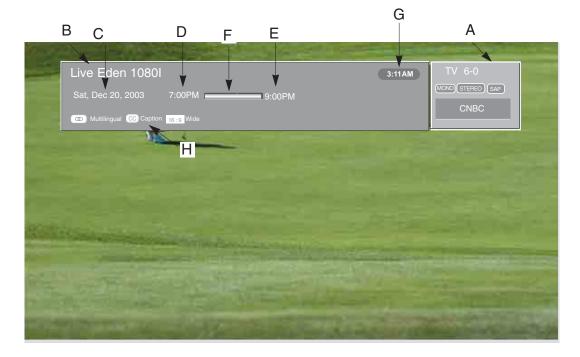
•While operating the 4-split, any button except **APM**, **ENTER**, **EXIT**, **VOLUME** ▲ / ♥, **MUTE** button on the remote control are not available.

•If you don't press any button for 30 seconds, APM screen is disappeared, automatically.

Brief Info.

- Operation: Watching TV/DTV/CATV/CADTV
 - Watching Video1, Video2, Video3
 - Watching IEEE 1394
 - In Component1, Component2, RGB, HDMI/DVI modes, INFO button is not working.
- Function: Show the present screen information.
 - On Watching with the upper Input signal,
 - press the INFO button.Press the INFO button or EXIT button to exit.
 - A: Banner information
 - B: Program title
 - C: Day, Month, Year
 - D: Program start time
 - E: Program finish time
 - F: Show the prosessing rate
 - G: Present time
 - H: Added information. Refer to the icon explanation.

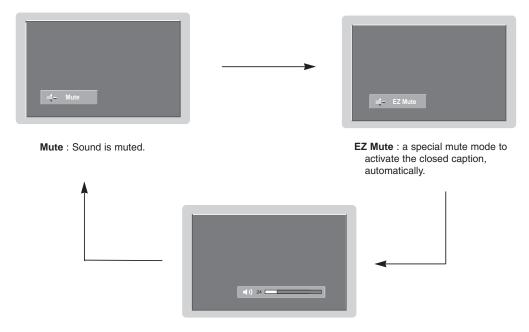
- 4:3 Screen Ratio of Input Signal 4:3
- Screen Ratio of Input Signal 16:9
- 480i Resolution of Input Signal 720x480i
- 480p Resolution of Input Signal 720x480p
- 720p Resolution of Input Signal 1280x720p
- 1080i Resolution of Input Signal 1920x1080i
- Multilingual : Input Signal have over two Audio information. Press the SAP button to select wanted Audio.
- Caption: Input Signal have over one Close service.
 Press the CC button to select wanted Closed caption.
- Input Signal has rating information . Refer to the <Lock Menu>.
 D (Dialogue), L (Language), S (Sex), V (Violence), FV (Fantasy Violence)



90 DLP Projection TV

EZ Mute

- If you set the Caption on, nothing to do with the MUTE button, Caption function operates as Caption on or off.
- When you repeatedly press the MUTE button, the screen is displayed in turn. (Refer to the lower picture)



Mute Off : Sound is enabled.

Note: EZ Mute only operates in DTV/Analog/Video/Front Video.

Freeze & Magnify

- Enlarges the picture with correct proportions.
- When enlarging the picture, the image may become distorted.
- 1. Press the **FREEZE** button in DTV 720p, or 1080i modes.
- 2. Use the \blacktriangle / \bigtriangledown / \checkmark / \blacklozenge buttons to select the screen split zoom section.
- 3. To return to normal viewing, press the **FREEZE** button again.



ion		
een Setup for PC ı	mode	
	ot the RGB-PC in Main Input, this function is a select HDMI/DVI input, this function is used. not available.	
ustment for screen Position	, Size, Phase, Reset	
	DC input and sharking the arrang quality	
lay PC Adjust Menu using ADJUST	PC input and checking the screen quality.	
	er displaying the Adjust, select the screen po	seition
: Adjust the screen size.		
e : Adjust the phase of Pixel clock (Only available in RGB-PC mo		
et : Initializating Size, Position, Ph	nase adjustment .	
POSITION SIZE PHASE RESET Adjust Close	POSITION SIZE PHASE RESET Adjust Move	B POSITION SIZE PHASE RESET Adjust Close
POSITION	POSITION SIZE Phase 0 PHASE RESET Adjust Previous	POSITION SIZE PHASE PESET Adjust Previous
P Projection TV		

Programming the Remote

The remote is a multi-brand or a universal remote. It can be programmed to operate most remote-controllable devices of other manufacturers.
Note that the universal moment exercise of other here devices of a strengthere because the strengthere are a strengthere.

Note that the remote may not control all models of other brands.

Programming a code into a remote mode

- To find out whether your remote can operate the device without programming, turn on the device such as a VCR and press the corresponding device button on the remote.
 After that, press the **POWER** button. If the device is turned off then it responds properly and the remote need not to be programmed. If not, the remote should be programmed to operate the device. The programming procedures are explained below.
- 2. Press the MENU and MUTE button continuously at the same time for 2 seconds, the current selected device button will be illuminated.

If you don't press any button for 20 seconds, the light on the device button will be turned off. In that case, you have to repeat from step 2.

- 3. Enter code numbers using the number button on the remote by refering the code table on the following pages. When pressing the button, the light blinks at a time. If the device turned off, the programming is successful.
- 4. Press the MENU button to store the code. After blinking twice, this code is stored.
- 5. Test the remote functions to see if the device responds properly. If not, repeat from step 2.

Programming Codes

VCRs

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
AIWA	034	KENWOOD	014 034 039 043	PORTLAND	108	TATUNG	039 043
AKAI	016 043 046 124		047 048	PULSAR	072	TEAC	034 039 043
	125 146	LG (GOLDSTAR)	001 012 013 020	QUARTZ	011 014	TECHNICS	031 033 070
AMPRO	072		101 106 114 123	QUASAR	033 066 075 145	TEKNIKA	019 031 033 034
ANAM	031 033 103	LLOYD	034	RCA	013 020 033 034		101
AUDIO DYNAMICS	012 023 039 043	LXI	003 009 013 014		040 041 062 063	THOMAS	034
BROKSONIC	035 037 129		017 034 101 106		107 109 140 144	ТМК	006
CANON	028 031 033	MAGIN	040		145 147	TOSHIBA	008 013 042 047
CAPEHART	108	MAGNAVOX	031 033 034 041	REALISTIC	003 008 010 014		059 082 112 131
CRAIG	003 040 135		067 068		031 033 034 040	TOTEVISION	040 101
CURTIS MATHES	031 033 041	MARANTZ	012 031 033 067		053 054 101	UNITECH	040
DAEWOO	005 007 010 064		069	RICO	058	VECTOR RESEARCH	012
	065 108 110 111	MARTA	101	RUNCO	148	VICTOR	048
	112 116 117 119	MATSUI	027 030	SALORA	014	VIDEO CONCEPTS	012 034 046
DAYTRON	108	MEI	031 033	SAMSUNG	032 040 102 104	VIDEOSONIC	040
DBX	012 023 039 043	MEMOREX	003 010 014 031		105 107 109 112	WARDS	003 013 017 024
DYNATECH	034 053		033 034 053 072		113 115 120 122		031 033 034 040
ELECTROHOME	059		101 102 134 139		125		053 054 131
EMERSON	006 017 025 027	MGA	045 046 059	SANSUI	022 043 048 135	YAMAHA	012 034 039 043
	029 031 034 035	MINOLTA	013 020	SANYO	003 007 010 014	ZENITH	034 048 056
	036 037 046 101	MITSUBISHI	013 020 045 046		102 134		058 072 080 101
	129 131 138 153		049 051 059 061	SCOTT	017 037 112 129		
FISHER	003 008 009 010		151		131		
FUNAI	034	MTC	034 040	SEARS	003 008 009 010		
GE	031 033 063 072	MULTITECH	024 034		013 014 017 020		
	107 109 144 147	NEC	012 023 039 043		031 042 073 081		
GO VIDEO	132 136		048		101		
HARMAN KARDON	012 045	NORDMENDE	043	SHARP	031 054 149		
HITACHI	004 018 026 034	OPTONICA	053 054	SHINTOM	024		
	043 063 137 150	PANASONIC	066 070 074 083	SONY	003 009 031 052		
INSTANTREPLAY	031 033		133 140 145		056 057 058 076		
JCL	031 033	PENTAX	013 020 031 033		077 078 149		
JCPENNY	012 013 015 033	DU	063	SOUNDESIGN	034		
	040 066 101	PHILCO	031 034 067	STS	013		
JENSEN	043	PHILIPS	031 033 034 054	SYLVANIA	031 033 034 059		
JAC	012 031 033 043	DU OT	067 071 101	0)// 101/001/00	067		
	048 050 055 060	PILOT	101	SYMPHONIC	034		
	130 150 152	PIONEER	013 021 048	TANDY	010 034		

CATV

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
ABC	003 004 039 042	GOLDEN CHANNEL	030		065 085 090	SPRUCER	047 078
	046 052 053	HAMLIN	049 050 055	PIONEER	034 051 052 063	STARCOM	002 004 008 009
AJIN	112	HITACHI	052 055		076	STARGATE	008 030
ANTRONIK	014	HOSPITALITY	070 077	POST NEWS WEEK	016	TADIRAN	030
ARCHER	005 007 014 024	JERROLD	002 003 004 008	PRUCER	059	TAEKWANG	110
CABLE STAR	026		009 010 052 069	PTS	011 048 071 072	TAIHAN	105
CENTURION	092		074		073 074	TANDY	017
CENTURY	007	LG (GOLDSTAR)	001 106 101 005	PULSAR	100	TEXSCAN	029
CITIZEN	007	M-NET	037	RCA	047	TOCOM	039 040 056
COLOUR VOICE	065 090	MACOM	033	REGAL	049 050	TOSHIBA	100
COMBANO	080 081	MAGNAVOX	010 012 064 079	REGENCY	057	UNIKA	007 014 024
COMTRONICS	019 030	MEMOREX	100	REMBRANT	025	UNITED CABLE	004 053
DIAMOND	023	MOVIE TIME	028 032	SAMSUNG	102 107 030 068	UNIVERSAL	005 007 014 024
EAGLE	020 030 040	NSC	015 028 038 071	SCIENTIFIC ATLANTA	003 011 041 042		026 027 032 035
EASTERN	057 062 066		073		043 045 046	VIEWSTAR	012 015 018 086
ELECTRICORD	032	OAK	016 031 037 053	SHERITECH	022		087 088 089
GE	072	PANASONIC	044 047	SIGNAL	030	ZENITH	100 114 060 093
GEMINI	008 022 025 054	PARAGON	100	SIGNATURE	052		
GI	052 074	PHILIPS	006 012 013 020	SL MARX	030		

HDSTB

Brand	Codes	Brand C	odes	Brand	Codes	Brand	Codes
ALPHASTAR DSR	123	1:	33 134	PACE SKY SATELLITE	143		088 090 107 130
AMPLICA	050	GENERAL INSTRUMENT 0	03 004 016 029	PANASONIC	060 142		137
BIRDVIEW	051 126 129	03	31 059 101	PANSAT	121	TOSHIBA	002 127
CHANNEL MASTER	013 014 015 018	HITACHI 13	39 140	PERSONAL CABLE	117	UNIDEN	016 025 042 043
	036 055	HOUSTON TRACKER 03	33 037 039 051	PHILIPS	071		044 045 048 049
CHAPARRAL	008 009 012 077	05	57 104	PICO	105		078 079 080 086
CITOH	054	HUGHES 06	68	PRESIDENT	019 102		101 135 136
CURTIS MATHES	050 145	JANIEL 06	60 147	PRIMESTAR	030 110 111	VIEWSTAR	115
DRAKE	005 006 007 010	JERROLD 06	61	PROSAT	072	WINEGARD	128 146
	011 052 112 116	KATHREIN 10	08	RCA	066 106	ZENITH	081 082 083 084
	141	LEGEND 05	57	REALISTIC	043 074		091 120
DX ANTENNA	024 046 056 076	LG 00	01	SAMSUNG	123		
ECHOSTAR	038 040 057 058	LUTRON 13	32	SATELLITE SERVICE CO	028 035 047 057		
	093 094 095 096	LUXOR 06	62 144		085		
	097 098 099 100	MACOM 0	10 059 063 064	SCIENTIFIC ATLANTA	032 138		
	122	06	65	SONY	103		
ELECTRO HOME	089	MEMOREX 05	57	STARCAST	041		
EUROPLUS	114	NEXTWAVE 02	28 124 125	SUPER GUIDE	020 124 125		
FUJITSU	017 021 022 027	NORSAT 06	69 070	TEECOM	023 026 075 087		

Audio

Brand	Cod	es			Brand	Cod	es			Brand	Coc	es			Brand	Co	les		
AIWA	014	028	070	096	JVC	004	013	141		PHILIPS	026	112	143			147	218		
	125	129	139	229	KEC	185	186	187		PIONEER	039	042	043	063	TOSHIBA	137			
	230				KENWOOD	038	050	067	089		065	091	093	094	THE	061			
AKAI	163					170	171	197	206		115	123	127	250	VICTOR	088	131		
ANAM	003	014	017	023		215	222			QUASAR	113				WARDS	089			
	059	106	189	216	KOHEL	030				RCA	080				YAMAHA	054	055	060	5 092
	217	235	236		NAD	045	046			RCX	092					199			
BURMECTER	252				LOTTE	014	016	036	098	REALISTIC	103	106							
CARVER	086					100	172	173	174	SAMSUNG	124	145	146	182					
CLARION	199					175	176	177	178		193	194	195	203					
DAEWOO	027	053	060	084		179	180	181	183		204	244	245	246					
	102	148	198	221		201	202	208	213	SANSUI	011	135	138	144					
DENON	015	075	130	143		214	219	223	232	SANYO	019	083	234						
FANTASIA	071					238	240			SCOTT	106	186							
FINEARTS	022				LXI	103				SHARP	031	032	051	052					
FISHER	089	099			MAGNAVOX	111					072	082	117	119					
LG(GOLDSTAR)	001	021	024	029	MARANTZ	002	018	020	025		156	184	199	200					
	087	107	108	110		034	041	081	090		206	209							
	190	191	192	210		097	112			SHERWOOD	005	006	158						
	211	212	239		MCINTOSH	049				SONY	044	045	109	114					
HAITAI	034	035	188	222	MCS	104					118	126	248	249					
HARMAN/KARDON	068				MEMOREX	107				TAEKWANG	012	020	073	074					
INKEL	037	058	062	069	NAD	046					076	077	105	161					
	078	079	095	121	ONKYO	013	040	041	047		162	163	164	165					
	122	149	150	151		048	056	057	132		166	167	168	169					
	152	153	154	155		133	140				205	231	233	242					
	157	158	159	160	OPTIMUS	158													
	189	207	222	224	PANASONIC	007	033	064	113	TEAC	010	085	106	136					
	225	226	227	243		142	220	241	251		185	187	237						
	247				PENNEY	104				TECHNICS	101	113	128	134					

DVD

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
APEX DIGITAL DENON GE HARMAN KARDON JVC LG	022 020 014 005 006 027 012 001 010 016 025	MAGNAVOX MARANTZ MITSUBISHI NAD ONKYO PANASONIC	013 024 002 023 008 017 003 009	PHILIPS PIONEER PROCEED PROSCAN RCA SAMSUNG	013 004 026 021 005 006 005 006 011 015	SONY THOMPSON TOSHIBA YAMAHA ZENITH	007 005 006 019 008 009 018 010 016 025

Troubleshooting Checklist

	Check whether the TV is turned on.
No picture & No sound	Is the power cord inserted into wall power outlet?
No Sound	 Test the wall power outlet, plug another product's power cord into the outlet where the TV's power cord was plugged in.

Picture OK &	 Press the VOLUME (►) button.
No sound	Sound muted? Press MUTE button.

	 Check to see if there is any object between the TV and the remote control causing obstruction.
The remote control doesn't work	 Are batteries installed with correct polarity (+ to +, - to -)? (Refer to p.11)
	Correct remote operating mode set: TV, VCR etc.?
	Install new batteries. (Refer to p.11)

Picture appears slowly after switching on	• This is normal, the image is muted during the TV startup process. Please contact your service center, if the picture has not appeared after five minutes.	
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	•Select Color in the Picture menu and press the ► button. (Refer to p.62)
No or poor color or poor picture	Keep a sufficient distance between the TV and the VCR.
	 Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.)

Horizontal/vertical bars or picture shaking	Check for local interference such as an electrical appliance or power tool.
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	No output from one of the speakers	Adjust Balance in the AUDIO menu. (Refer to p.63)
(
	Unusual sound from inside the TV	 A change in ambient humidity or temperature may result in the unit turning off and does not indicate a fault with the TV.

Poor TV input signal	Check ANTENNA and CABLE connection.

Poor Video signal	Check ANTENNA and CABLE connection.
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No channel or a few channel	Start EZ Scan.
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My Guide listings disappeared after a power failure	You should begin to receive listings again within 24 hours.
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Owner's Manual 97

Troubleshooting Checklist

Some channel numbers in the Guide are incorrect.
• You can correct them using Change Channel Display under Setup.

	 Listings usually appear within 24 hours after a successful Setup. It may take up to a week to fill the Listings grid with the full 8 days of listings. If you see a Listings grid with the message "No Listings" displayed you should start to receive updated program listings within 24 hours. To receive listings:
	Make sure the cable box is left On, if applicable.
I have not received any Guide listings.	Turn off your recorder when not in use.If the message "No data for this screen" is displayed:
	Check the connections between the TV, cable, antenna, and the IR cable
	if using a cable box.
	Verify Setup information under Change System Settings.
	Make sure the cable box is On, if applicable.
	· If this message is still displayed after multiple days, please contact the
	LG® Brand Customer Support.

A show I set to Record did not occur.	 Make sure your recorder is turned Off before the recording begins. Make sure there is a tape. Check the Schedule menu and verify that the show is listed before recording begins. Check the placement of the IR cable in front of your recorder.
	 Check the Schedule menu and verify that the show is listed before recording begins.

I set a show to Auto-Tune and it did not.	Check the Schedule menu and verify that the show is listed as a Reminder.Highlight the show under Listings and do the following:
	Press the Menu key on the remote.
	• Use the down arrow to highlight Edit Reminder, and press ENTER.
	Verify the Auto-Tune option reads Yes.
	 The TV must be On at the scheduled time for Auto-Tune.
	If you have a cable box, check the IR cable.

I set a show with the Power On TV option and	Check the Schedule menu and verify that the show is listed as a Reminder.Highlight the show under Listings and do the following:
	Press the Menu key on the remote.
it did not.	• Use the down arrow to highlight Edit Reminder, and press ENTER.
	Verify the Power On TV option reads Yes.

Maintenance

- Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new TV. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

- 1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
- 2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth. Please be sure not to use a wet cloth.

Extended Absence



If you expect to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

Product Specifications

MODEL	52SX4D-UB	62SX4D-UB
Horizontal Size (inches)	55.7	63.4
Height (inches)	35.8	40.4
Depth (inches)	15.7	19.5
Weight (lbs.)	82.7	108
Power requirement	AC120V ~ 60Hz NTSC-M, ATSC, 64 & 256 QAM VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 135, CADTV 1 ~ 135. DTV 2 ~ 69 260W	
Television System		
Program Coverage		
Power Consumption (W)		
Antenna	75 ohm External Terminal for VHF/UHF	
Audio Output (W)	20Wx2	
Supplied Accessories	Remote control, 2 size AA batterie	es, D-sub 15 pin Cable, G-LINK cable

• The specifications shown above may be changed without prior notice for quality improvement.

Notes

Notes

CONCERNING PIXEL FUNCTIONALITY: Your DLP Rear Projection Television contains about 921600 individual pixels. DLP Projection displays typically contain a small number of pixels that do not function normally. Your display has been inspected and is in compliance with manufacturer's specifications, indicating that any pixel defects do not effect the operation or use of your display.

READ YOUR OPERATING GUIDE CAREFULLY SO THAT YOU UNDERSTAND THE OPERATION OF YOUR DLP REAR PROJECTION DISPLAY AND HOW TO ADJUST THE CONSUMER CONTROLS.

IMPORTANT: Please fill out and mail in your Product Registration Card or go to www.lgservice.com to register your product online. This information allows us to reach you promptly should we discover a safety or reliability problem that could affect you.

CUSTOMER ASSISTANCE NUMBERS

To obtain customer assistance, product information, or Dealer or Service locations	Call 1-800-243-0000 24 hours a day, 365 days per year	

FOR SERVICE:

For warranty service information, please contact the LG®Brand Customer Support telephone number listed below.

When calling for service, please have your product model number, serial number and the date of purchase or the date of original installation available.

If a replacement unit is required, under some circumstances you may be asked to provide a reserve deposit to the LG®Brand Service Center against a credit card number as surety for advanced shipment. Your credit card will not be charged if you return the defective unit within 10 working days.

If a replacement unit is received, please use the carton and packaging from that unit in returning the defective unit to the LG®Brand Service Center.

Parts and service in accordance with the LG®Brand warranty is our responsibility and will be provided without charge. Other service requirements will be at the owner's expense. If you have problems in obtaining satisfactory warranty service, write or call the LG®Brand Customer Interactive Service.

To assure proper credit and avoid unnecessary charges, you must obtain a Return Authorization before returning any product to the Factory Service Center. Contact the number below or your authorized LG®Brand repair facility for details.

Before you call for warranty service, check your operating guide - you may avoid a service call.

LG®Brand Customer Interactive Center P. O. Box 240007 201 James Record Road Huntsville, Alabama 35824 ATTN: CIC

Telephone number: 1-800-243-0000 This number is a toll-free number Follow menu prompts when the call is answered

Web address: www.lgservice.com

Telephone Center Hours of Operation: 24 hours a day, 365 days per year

Service for your LG®Brand Rear Projection Television is provided through LG Electronics Alabama, Inc., the authorized LG®Brand Service Center for the United States.

LG®Brand DLP Rear Projection Televisions are marketed and distributed in the United States by LG Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069.



Your LG® brand DLP Rear Projection Television will be repaired or replaced as set forth below, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States.

WARRANTY PERIOD:	In-Home Service is available on this Unit, as provided in	
LABOR: One Year from the Date of Purchase. Your unit will be repaired or replaced with a new, substitute model or factory reconditioned unit, at the manufacturer's option. If repair, parts used in the repair may be new or remanufactured.	this Warranty. Please retain dealer's dated bill of sale or deliv ery ticket as evidence of the Date of Purchase for proof of war ranty, and submit a copy of the bill of sale to the service person at the time warranty service is provided.	
Parts: One Year from the Date of Purchase.	Please call	
Halogen Bulb: One Year from the Date of Purchase.	1-800-243-0000	
Replacement Units and Repair Parts are warranted for the remaining portion of the original unit's warranty period.	To locate your nearest LG® Brand Authorized Service Center and to schedule a service appointment.	
EFFECTIVE DATE OF WARRANTY: Your warranty period begins on the date of sale to the original consumer / end user. KEEP THE DEALER'S DATED BILL OF SALE OR PROOF OF DELIVERY as evidence of the purchase date. You will be required to submit a legible copy of your bill of sale or proof of delivery when requesting warranty service.	For further Instructions, see "For Service" below	

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIM-ITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. NEITHER THE MANUFACTURER NOR ITS U.S. DISTRIBUTOR SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST OR CORRUPTED PROGRAMMING OR DATA, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

 damage caused in shipping or transit service required as a result of improper installation, including incorrect or insufficient AC supply (please consult the owner's manual for power supply requirements). installation or repair of antenna systems, cable converters, cable company supplied equipment, or other components in a video system set-up or adjustment on consumer controls, or damage caused by improper adjustments damage caused by other system components any unit that has been modified or incorporated into any other product replacement of batteries on the remote control. replacement of the Halogen Bulb except within the first 90 days 	 damage (including cosmetic damage), failure, loss or personal injury due to misuse, abuse, negligence, improper maintenance or storage, or to acts of nature or other causes beyond our control. (Causes beyond our control include but are not limited to lightning strike, power surges, power outages and water damage.) repair or replacement of warranted parts by other than an LG® Brand authorized service centers. units purchased or serviced outside of the U.S.A. product where the original factory serial numbers have been removed, defaced or changed in any way. product sold and labeled as "as is, where is" or similar disclaimer.
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The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

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